

Columbia University
Bulletin of Information

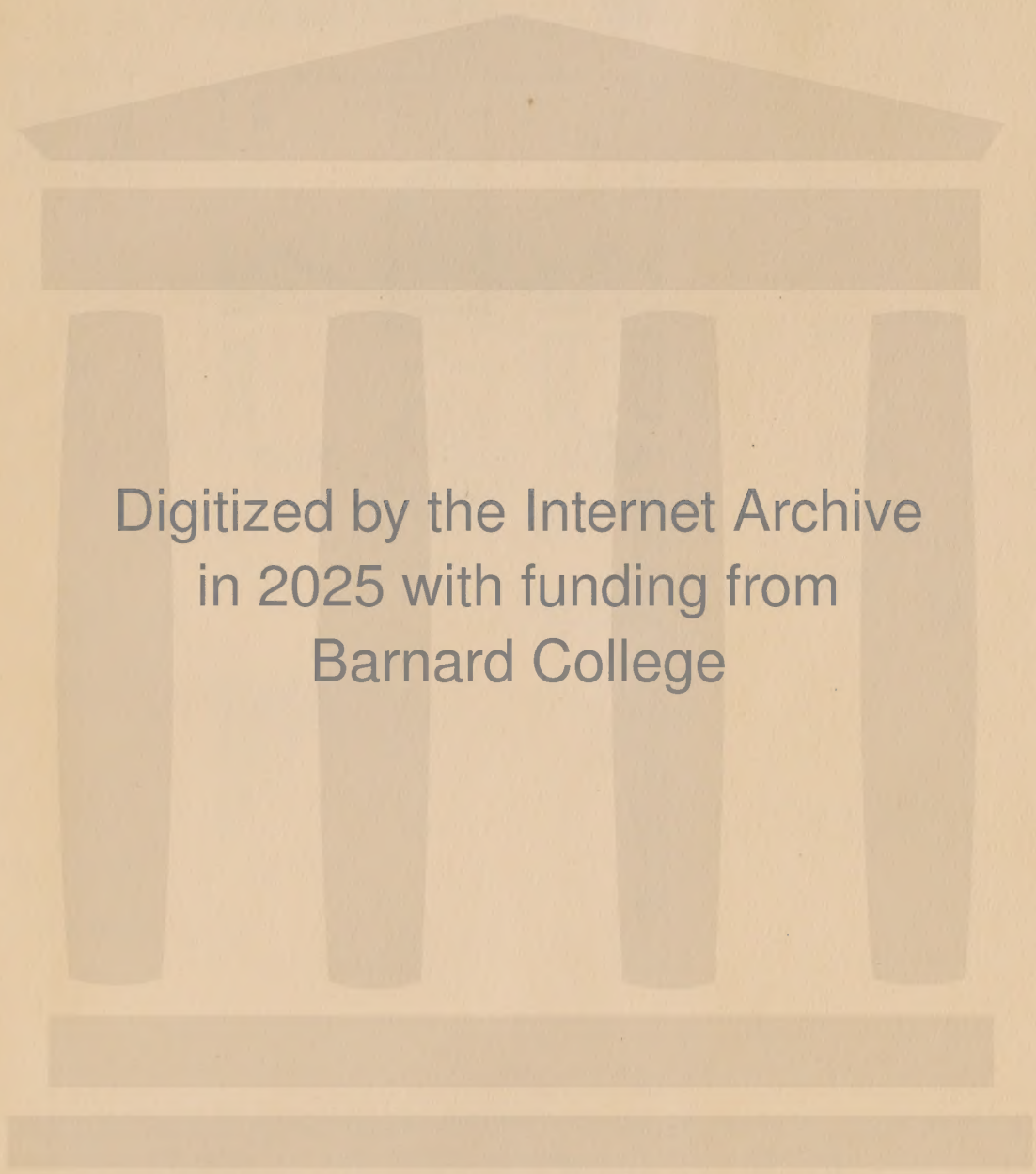
BARNARD COLLEGE

ANNOUNCEMENT

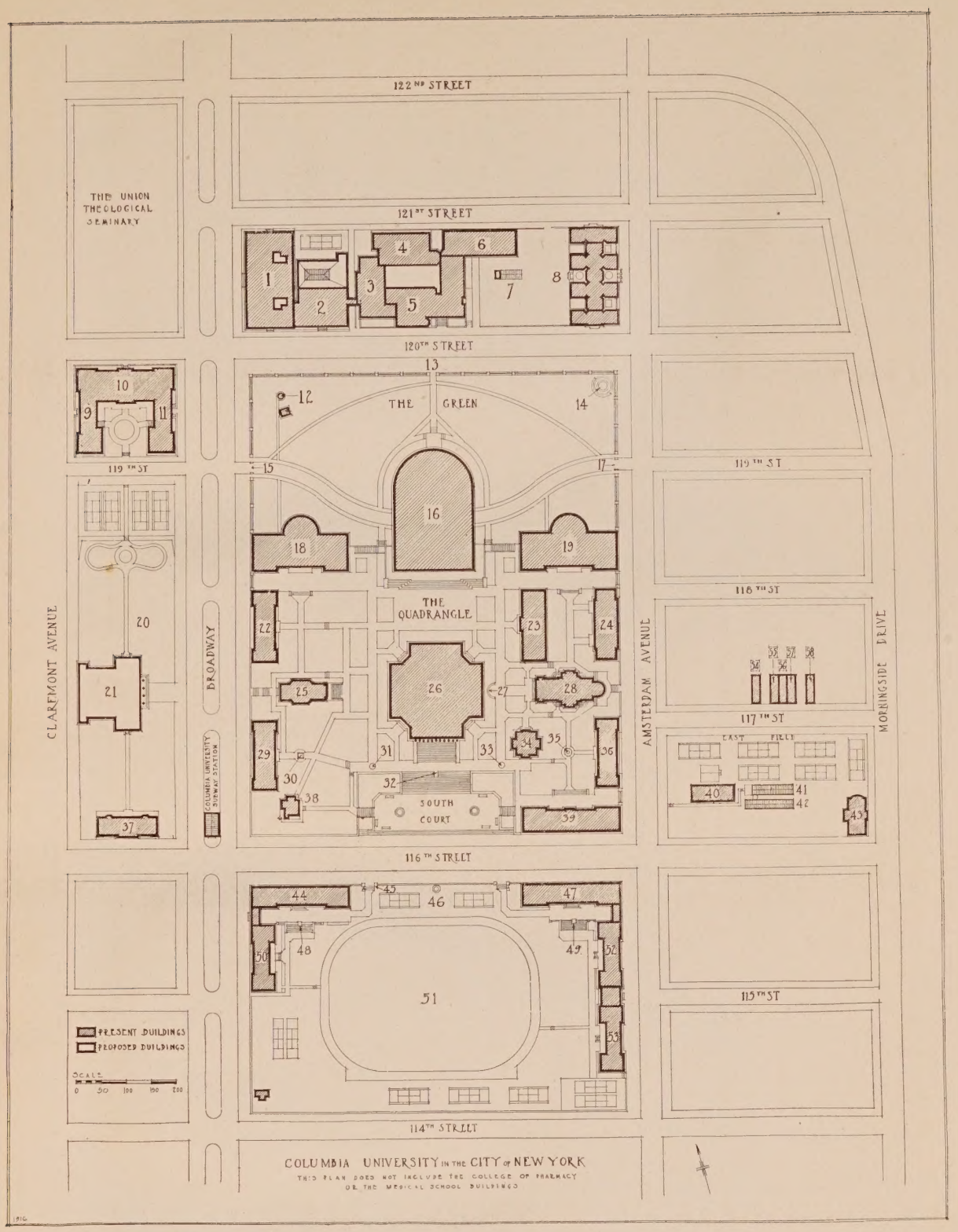
1916–1917

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BARNARD COLLEGE
ARCHIVES


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The **Barnard College** buildings and grounds, at the left of the plan, are numbered 9, 10, 11, 20, 21, 37.

1. Horace Mann School
2. Thompson Memorial Bldg.
3. Milbank Memorial Chapel
4. Macy
5. Main Building (Teachers)
6. Household Arts
8. Whittier
9. Fiske
10. Milbank
11. Brinckerhoff
12. Wilde Observatory
16. University
18. Havemeyer
19. Schermerhorn
20. Milbank Quadrangle
21. Students' Hall (Barnard)
22. Engineering
23. Avery
24. Fayerweather
25. Earl
26. Library
28. St. Paul's Chapel
29. Mines
32. Statue of Alma Mater
34. East
36. Philosophy
37. Brooks
38. Faculty Club
39. Kent
40. Cancer Research
43. President's House
44. Journalism
47. Hamilton
50. Furnald
51. South Field
52. Hartley
53. Livingston
54. Deutsches Haus
56. Chaplain Knox
57. Maison Française
58. Carnegie Endowment



FISKE HALL MILBANK HALL BRINCKERHOFF HALL



Columbia University
Bulletin of Information

BARNARD COLLEGE

ANNOUNCEMENT

1916–1917

APRIL, 1916

FORM OF BEQUEST

To Barnard College I give and bequeath the sum of $, for the uses and purposes of said Corporation.

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Treasurer

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Mrs. Henry N. Munn ..... 281 Lexington Ave.
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Albert G. Milbank ..... 49 Wall St.
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Howard Townsend ..... 27 Cedar St.
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John G. Milburn ..... 54 Wall St.
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Mrs. Caroline B. Crocker ..... 108 East 37th St.
Mrs. George McAneny ..... 19 East 47th St.
(Alumnæ Trustee 1915–1919)

STANDING COMMITTEES

1916

NOTE. — The date after each name indicates the expiration of term of office.

Executive Committee

Mr. BROWNELL, *Chairman*
Mrs. ANDERSON, *Vice-Chairman*
Mr. JENNINGS, *Clerk*

Mr. JAY (1916)	Mr. MILBURN (1917)	Mr. MILBANK (1918)
Mrs. SPERANZA (1916)	Mrs. REID (1917)	Miss SPENCE (1918)

THE PRESIDENT AND THE TREASURER (ex-officio)

Committee on Finance

Mr. MILBANK, *Chairman*

Mr. JAY	Mr. RIVES

THE CHAIRMAN OF THE BOARD OF TRUSTEES (ex-officio)

Committee on Buildings and Grounds

Miss BAKER, *Chairman*

Mrs. REID	Mr. TOWNSEND

THE PRESIDENT AND THE CHAIRMAN OF THE BOARD OF TRUSTEES (ex-officio)

Committee on Education

Miss SPENCE, *Chairman*

Mr. MILBURN	Mrs. MCANENY

THE PRESIDENT AND THE CHAIRMAN OF THE BOARD OF TRUSTEES (ex-officio)

ASSOCIATE MEMBERS

Mrs. Robert Abbe.....11 West 50th St.
Mrs. W. Reierson Arbuthnot.....40 Princes Gate, London, England
Mrs. Frederick P. Bellamy.....260 Henry St., Brooklyn
Miss Helen Dawes Brown.....106 East 52d St.
Mrs. William Adams Brown.....Princeton, N. J.
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Mrs. James J. Goodwin.....11 West 54th St.
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Mrs. Henry Holt.....711 Madison Ave.
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Mrs. M. L. Kellner.....7 Mason St., Cambridge, Mass.
Mrs. Seth Low.....30 East 64th St.
Mrs. Frederick P. Olcott.....4 East 53d St.
Mrs. Samuel T. Peters.....117 East 37th St.
Mrs. Isaac L. Rice.....Hotel Ansonia
Mrs. C. A. Runkle.....328 West 57th St.
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Mrs. Jacob H. Schiff.....965 Fifth Ave.
Mrs. Charles Stewart Smith.....25 West 47th St.
Mrs. James Speyer.....1058 Fifth Ave.
Miss Helen O. Phelps Stokes.....230 Madison Ave.
Mrs. Algernon Sydney Sullivan.....16 West 11th St.
Mrs. Roderick Terry.....Newport, R. I.
Mrs. Frederick Ferris Thompson.....283 Madison Ave.
Miss Amy Townsend.....Colony Club
Mrs. Schuyler Van Rensselaer.....9 West 10th St.
Mrs. Henry Villard.....540 Park Ave.
Mrs. Charles W. Watson.....500 Madison Ave.
Mrs. Everett P. Wheeler.....150 East 72d St.
Miss Alice Williams.....Weedsport, N. Y.
Mrs. William B. Wood.....33 West 47th St.

FOUNDERS

[Any donor of not less than $5000 will be enrolled among the founders of Barnard College.]

Jacob H. Schiff
Mrs. James J. Goodwin
James Talcott
In the name of
Josiah M. Fiske
Mrs. Seth Low
*Mrs. C. B. Hackley
*Joseph B. Bloomingdale
*J. Pierpont Morgan
*Mrs. Esther Herrman
Mrs. H. O. Havemeyer
Mrs. Frederick P. Olcott
Mrs. W. Reierson Arbuthnot
Miss Olivia E. Phelps Stokes
*Mrs. J. S. T. Stranahan
John D. Rockefeller
Mrs. Cornelius Vanderbilt
Mrs. Joseph H. Choate
Oliver H. Payne
Mrs. A. A. Anderson
*Mrs. Van Wyck Brinckerhoff
Miss Emily H. Bourne
Seth Low, LL.D.
*Miss Emily O. Gibbes
Mrs. James Talcott
In the name of
Lazarus Straus
*Joseph Pulitzer
Jefferson Seligman
Mrs. Jabez A. Bostwick
Frederic B. Jennings
John D. Archbold
*Miss Matilda W. Bruce
Isaac Guggenheim
Mrs. Henry Fairfield Osborn
*J. Henry Smith
Louis Stern
William K. Vanderbilt
*William Ziegler
Mrs. John S. Kennedy
*Mrs. George Whitfield Collord
Estate of
Eleanor Butler Sanders
Miss Clara B. Spence
*John S. Kennedy
*Mrs. Luther G. Tillotson
Joseph Eastman
Horace W. Carpentier
Estate of
Mrs. William Moir
Mrs. Charles Woerishoffer
Mrs. Clinton Ogilvie
Mrs. E. Henry Harriman
Mrs. Caroline B. Crocker
Mrs. Maria Hall Williamson

* Deceased.

THE FACULTY

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William T. Brewster, A.M., *Provost and Professor of English*

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Franklin Henry Giddings, Ph.D., LL.D., *Professor of Sociology and the History of Civilization*

Harold Jacoby, Ph.D., *Rutherfurd Professor of Astronomy*

James Rignall Wheeler, Ph.D., LL.D., *Professor of Greek Archæology and Art*

Frank N. Cole, Ph.D., *Professor of Mathematics*

James Harvey Robinson, Ph.D., *Professor of History*

Calvin Thomas, LL.D., *Gebhard Professor of the Germanic Languages and Literatures*

William P. Trent, M.A., LL.D., D.C.L., *Professor of English Literature*

Herbert Gardiner Lord, A.M., *Professor of Philosophy*

Nelson Glenn McCrea, Ph.D., *Anthon Professor of the Latin Language and Literature*

Henry E. Crampton, Ph.D., *Professor of Zoölogy*

Charles Knapp, Ph.D., *Professor of Classical Philology*

[1]Henry L. Moore, Ph.D., *Professor of Political Economy*

Herbert Maule Richards, Sc.D., *Professor of Botany*

[1] Margaret E. Maltby, Ph.D., *Associate Professor of Physics*

Louis Auguste Loiseaux, B.S., *Associate Professor of the Romance Languages and Literatures*

James T. Shotwell, Ph.D., *Professor of History*

George Willis Botsford, Ph.D., *Professor of History*

Edward Kasner, Ph.D., *Professor of Mathematics*

William P. Montague, Ph.D., *Associate Professor of Philosophy*

Grace A. Hubbard, A.M., *Associate Professor of English*

Marie Reimer, Ph.D., *Associate Professor of Chemistry*

Adam Leroy Jones, Ph.D., *Director of University Admissions*

Henry Raymond Mussey, Ph.D., *Associate Professor of Economics*

Raymond Weeks, Ph.D., *Professor of the Romance Languages and Literatures*

Wilhelm Alfred Braun, Ph.D., *Associate Professor of the Germanic Languages and Literatures*

Tracy Elliot Hazen, Ph.D., *Assistant Professor of Botany*

John Lawrence Gerig, Ph.D., *Associate Professor of Celtic*

La Rue Van Hook, Ph.D., *Associate Professor of Classical Philology*

Charles Sears Baldwin, Ph.D., *Professor of Rhetoric and English Composition*

---

[1] Absent on leave spring session.

ROBERT E. CHADDOCK, Ph.D., *Associate Professor of Statistics*
DAVID SAVILLE MUZZEY, Ph.D., *Associate Professor of History*
GERTRUDE M. HIRST, Ph.D., *Assistant Professor of Classical Philology*
IDA H. OGILVIE, Ph.D., *Associate Professor of Geology*
[1] HENRI F. MULLER, B. ès L., Ph.D., *Assistant Professor of the Romance Languages and Literatures*
HARRY L. HOLLINGWORTH, Ph.D., *Associate Professor of Psychology*
[2] MABEL FOOTE WEEKS, A.B., *Associate in English*

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JOHN DOUGLAS ADAM, D.D., *Associate in Religion*
STUART L. TYSON, M.A., (Oxon.), *Associate in Religion*
ELEANOR KELLER, A.M., *Instructor in Chemistry*
PAULINE HAMILTON DEDERER, Ph.D., *Instructor in Zoölogy*
[1] ALLEN WILSON PORTERFIELD, Ph.D., *Instructor in the Germanic Languages and Literatures*
MAUDE ALINE HUTTMANN, Ph.D., *Instructor in History*
GRACE LANGFORD, S.B., *Instructor in Physics*
LOUISE HOYT GREGORY, Ph.D., *Instructor in Zoölogy*
JULIANA S. HASKELL, Ph.D., *Instructor in the Germanic Languages and Literatures*
HAROLD B. CURTIS, Ph.D., *Instructor in Mathematics*
WILLIAM HALLER, A.M., *Instructor in English*
WILLIAM S. MESSER, A.M., *Instructor in Classical Philology*
LUTHER HERBERT ALEXANDER, Ph.D., *Instructor in the Romance Languages and Literatures*
CLARE M. HOWARD, Ph.D., *Instructor in English*
EMILIE J. HUTCHINSON, A.M., *Instructor in Economics*
GOTTLIEB AUGUSTUS BETZ, Ph.D., *Instructor in the Germanic Languages and Literatures*
GEORGE WALKER MULLINS, A.M., *Instructor in Mathematics*
ETHEL STURTEVANT, A.M., *Instructor in English*
HARRY TODD COSTELLO, Ph.D., *Instructor in Philosophy*
MINOR W. LATHAM, A.M., *Instructor in English*
FLORENCE DE LOISELLE LOWTHER, A.M., *Instructor in Zoölogy*
CHARLES C. MOOK, Ph.D., *Instructor in Geology*
————, *Instructor in the Romance Languages and Literatures*
————, *Instructor in the Romance Languages and Literatures*
MARION E. RICHARDS, A.M., *Lecturer in Botany*
GRACE H. GOODALE, A.B., *Lecturer in Classical Philology*
ESTELLE H. DAVIS, *Lecturer in English*
MADELEINE HENRIETTE DOBY, B. ès L., *Lecturer in the Romance Languages and Literatures*

[1] Absent on leave 1916–17.
[2] Absent on leave spring session.

MARY WOTHERSPOON STEWART, A.M., *Lecturer in Botany*
HUGH WILEY PUCKETT, Ph.D., *Lecturer in the Germanic Languages and Literatures*
LAURA C. BRANT, A.M., *Assistant in Physics*
JENNIE TILT, M.S., *Assistant in Chemistry*
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EDNA M. HENRY, A.B., *Assistant in Zoölogy*
CLARA C. WARE, A.M., *Assistant in Zoölogy*
S. PARKER WHITE, A.M., M.D., *Assistant in Philosophy*
HESTER M. RUSK, A.B., *Assistant in Botany*
HELEN RUPERT DOWNES, A.B., *Assistant in Chemistry*
————————, *Assistant in Geology*

Officers of the University Who Give Instruction in Barnard College

FRANZ BOAS, Ph.D., LL.D., Sc.D., *Professor of Anthropology*
[1]FRANKLIN THOMAS BAKER, Litt.D., *Professor of the English Language and Literature*
CLARENCE H. YOUNG, Ph.D., *Professor of Greek*
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VLADIMIR G. SIMKHOVITCH, Ph.D., *Professor of Economic History*
CHARLES A. BEARD, Ph.D., *Professor of Politics*
ALGERNON DE V. TASSIN, A.M., *Assistant Professor of English*
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PHILIP N. HAYDEN, A.M., *Lecturer in the Romance Languages and Literatures*
HERBERT N. SHENTON, A.M., *Assistant in Sociology*

[1] Absent on leave spring session.
[2] Absent on leave winter session.

Barnard Representatives on the University Council

The DEAN (*ex-officio*), the PROVOST (*ex-officio*), and Professor RICHARDS (serving until June, 1918).

Barnard Representatives on the University Committee on Admissions

Professor JONES, *chairman*, and the DEAN (*ex-officio*).

MEMBERS OF BARNARD SUB-COMMITTEE: Professor BRAUN, Dr. HUTTMANN and Dr. HOWARD.

Standing Committees of the Faculty

COMMITTEE ON INSTRUCTION: The PROVOST, *chairman*, Professors OGILVIE, DAVID S. MUZZEY, COLE, RICHARDS, MONTAGUE, VAN HOOK, and the DEAN (*ex-officio*)

COMMITTEE ON SCHOLARSHIPS: The DEAN, *chairman*, Miss HUTCHINSON, Dr. HASKELL, and the PROVOST (*ex-officio*)

COMMITTEE ON HONORS: Professors MALTBY, *chairman*, and HOLLINGWORTH, Dr. GREGORY, and the DEAN and the PROVOST (*ex-officio*)

COMMITTEE ON STUDENT ORGANIZATIONS: The DEAN, *chairman*, Miss WEEKS, Professors BALDWIN and HIRST, Miss STURTEVANT, and the PROVOST (*ex-officio*)

Officers of Administration

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ANNA E. H. MEYER, A.B., *Registrar*
KATHARINE S. DOTY, A.M., *Secretary*
VIRGINIA TUCKER BOYD, A.B., *Chief Clerk*
MABEL FOOTE WEEKS, A.B., *Mistress of Brooks Hall*
L. DOROTHY LOYHED, A.B., *Secretary of Brooks Hall*
BERTHA L. ROCKWELL, *Librarian of Barnard College*
MARY A. PATCHIN, A.M., *Director of Religious and Philanthropic Work*

————————, *Librarian of the University*
FREDERICK A. GOETZE, M.Sc., *Comptroller*
Rev. RAYMOND C. KNOX, B.D., *Chaplain of the University*
WILLIAM H. MCCASTLINE, M.D., *University Medical Officer*

Barnard College

GENERAL STATEMENT

Founding of the College. — Barnard is the undergraduate college for women of Columbia University. In 1889 a group of men and women who wished to provide for women in New York City a college education fully equal to that offered to men succeeded in obtaining the sanction of the Trustees of Columbia for the establishment of an affiliated woman's college. A charter was granted by the State of New York, and promises of subscriptions for the support of the college during the first four years of its existence were secured. Because President Frederick A. P. Barnard of Columbia College had for many years been an ardent advocate of the admission of women to Columbia, the founders of the new college gave it his name. With seven instructors selected from the teaching staff of Columbia and with twenty-six students, Barnard opened in the fall of 1889 in a rented house at 343 Madison Avenue.

Relation to Columbia University. — In 1900, when the growth of the College had made inappropriate the original informal arrangement for instruction, an agreement was made between the Trustees of Columbia College and of Barnard College by which Barnard was incorporated in the educational system of the University. By the provisions of this agreement, the President of the University is *ex-officio* President of Barnard College. Barnard professors are appointed by the University on the nomination of the Dean with the approval of the President and the Trustees, and rank as professors of the University; in exchange for instruction given by them at Columbia, certain Columbia instructors give courses at Barnard. The graduates of Barnard receive their degrees from Columbia, and these degrees are maintained as of equal value with the corresponding degrees conferred upon the graduates of Columbia College. The University library is open to women on the same terms as to men. Various opportunities in other schools of the University have also, through the relation of Barnard College to Columbia, been opened to Barnard students who wish to avail themselves of the advantage of professional training. On the other hand, Barnard has its separate corporate and financial organization, with its own Board of Trustees. It retains its own internal administration, conducted by the Dean and the Provost, who are appointed by the President with the advice and consent of the Trustees of Barnard. Its courses are determined and administered by its own Faculty, consisting of all professors who give instruction at Barnard.

Buildings and Grounds. — Since 1897 Barnard has occupied the land on Broadway between 119th and 120th Streets, just west of the main buildings of the University. In 1903, Milbank Quadrangle, extending from 119th to 116th Street, was added through the gift of Mrs. A. A.

Anderson. Milbank Hall and Brinckerhoff Hall, erected in 1896, the gifts respectively of Mrs. Anderson and Mrs. Van Wyck Brinckerhoff, and Fiske Hall, erected in 1898, the gift of Mrs. Josiah M. Fiske, are three adjoining buildings on 119th Street; they contain the administrative offices, lecture rooms, and laboratories. Brooks Hall, at the southern end of the Quadrangle on 116th Street, erected in 1907, is the hall of residence. A Students' Hall, given by Mr. Jacob H. Schiff, is in course of erection on Milbank Quadrangle near 117th Street; it will contain the gymnasium, swimming-pool, reading-room, lunch room, doctor's and nurse's offices, and rooms for student organizations.

Financial Statement. — The College owns equipment, buildings, and grounds of an estimated value of over $2,000,000, and holds productive funds providing a net income of $60,000.

Courses of Study. — Barnard College offers two distinct liberal courses of undergraduate instruction for women, each of four years' duration, but differing widely in aim and leading to different degrees.

The literary course requires the study of Latin or Greek for entrance and also in college, embraces such general subjects as are deemed essential to a liberal education, requires a major subject equivalent to a three-hour course throughout three years, and leads to the degree of Bachelor of Arts.

The science course allows the substitution of scientific and advanced subjects in place of the entrance Latin or Greek, embraces such general courses as are considered essential to any liberal education, requires a major and two minor subjects in pure science amounting to seventy points of college work, and leads to the degree of Bachelor of Science.

A general two-years' course, not leading to a Barnard degree, is arranged to give the cultural basis in literature, languages, history, and natural science for work in certain professional schools of the University. (See p. 60.)

Academic Discipline. — Under the statutes all students are admitted subject to the disciplinary power of the University.

The College makes all possible provision for safeguarding the health of its students; and it reserves the right to require the withdrawal of any student whose health, in the opinion of the University Medical Officer, does not warrant her continuing her college course.

Students who are not residing in Brooks or Whittier Hall, or with their parents, must have their places of residence approved by the Dean before making final arrangements.

ADMISSION

Admission to Barnard College is obtained only by examination, except that in suitable cases the certified credentials of degree-granting institutions may be accepted for the subjects or parts of subjects which they cover.

Except for reasons of weight, candidates for admission to the freshman class must be at least fifteen years of age at the time of matriculation;

candidates for admission to advanced standing must be correspondingly older. Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen. Students from other colleges or universities must present certificates of honorable dismissal.

Information regarding admission may be obtained in person, or by mail or telephone, from the Secretary of Barnard College.

ADMISSION TO THE FRESHMAN CLASS

In order to enter the freshman class a candidate must satisfy the College as to:

1. Adequate preparation in the subjects required for admission (p. 17);
2. The possession of the qualities of mind and character deemed requisite for the most profitable pursuit of a college course;
3. Sound health.

It should be clearly understood that the satisfaction of any one or two of these requirements alone does not entitle the candidate to admission.

1. **Examination and School Record.** —Evidence of adequate preparation in the subjects required for admission must be: examination and school record.

The following examinations may be offered in partial fulfilment of the requirements for admission: those given by the College Entrance Examination Board (p. 19), by Columbia University (p. 19), and, under certain conditions, those given by the Education Department of the State of New York or by other colleges (see p. 24).

The results of a candidate's examinations may stand to her credit for twenty-nine months but no longer.

She may not present herself at more than four series of examinations except by special permission of the Committee on Admissions.

In making application for examination a candidate must file with the Secretary of Barnard College, for the use of the Committee on Admissions, a statement from the principal of her school or from her last instructor indicating the extent and character of her preparation in each subject in which she applies for examination. The Committee on Admissions may withhold credit when this requirement is not met, and will give weight, in estimating the results of the candidate's entrance examinations, to the record of her school performance. Blanks for school records may be obtained from the Secretary.

2. **Certificate of Character.** — Evidence of the possession of the requisite moral and personal qualities may be: a confidential estimate of character and personality signed by an authorized representative of the candidate's former school testifying to the candidate's possession of a good moral character and of qualities which promise future usefulness of a high order. This estimate should be full and specific. It may be supplemented by letters from teachers and other responsible persons. All such certificates and letters should be sent by the writers directly to the Secretary.

3. **Health.** — Evidence of sound health may be: an acceptable certificate from the candidate's family physician or from the University Medical Officer. In case of doubt an examination by the University Medical Officer will be required. The proper blanks may be obtained from the Secretary of Barnard College.

Preliminary Application for Admission. — Each student who plans to enter the College should file a preliminary application for admission with the Secretary at as early a date as possible. Barnard College is finding it necessary to limit the number of students admitted. It may be expected, therefore, that the requirements for admission will be administered with increasing strictness. Other things being equal, early applications will receive the preference.

SUBJECTS REQUIRED FOR ADMISSION

The requirement for admission to the freshman class is proficiency in fifteen (15) units of secondary school subjects, of which some are prescribed and the remainder elective, as specified below. The unit implies the study of a subject for a time equivalent to five (5) periods a week for one (1) year.

	COUNTING IN UNITS
Candidates for the A.B. degree must offer:	
English, elementary (page 32)	3
Mathematics, elementary (page 46)	3
Latin, elementary, 4 units (page 44), *or* Greek, elementary, 3 units (page 41)	4 *or* 3
Modern foreign languages (from Groups I and II), *or* Greek as second ancient language (page 41)	3
Elective subjects (from Groups I, II, III) to complete a total of 15 units	2 *or* 3
Candidates for the B.S. degree must offer:	
English, elementary (page 32)	3
Mathematics, elementary (page 46)	3
Science (from Group III)	2
[1] Intermediate or advanced subjects (from Group I, with which Latin 4 or 5 may be included, page 44)	2
[1] Modern foreign languages (from Groups I and II)	3
[1] Elective subjects (from Groups I, II, III)	2
Candidates for the general two-years' course must offer:	
English, elementary (page 32)	3
Mathematics, elementary (page 46)	3
Ancient or modern foreign languages	4
History, foreign languages, mathematics, or science	5

[1] Intermediate French and German may be counted both as intermediate units and as units of modern foreign languages, if sufficient elective units are added to make the total of 15 entrance units.

	COUNTING IN UNITS
Candidates for the two-years' course who intend to transfer to the School of Journalism must offer:	
English, elementary (page 32)	3
History, elementary (see note, page 42)	2
Foreign languages (Groups I and II)	4 *or* 5 *or* 6
in one of the following combinations:	
a. French, 4 units	
b. German, 4 units	
c. French, 2 units; German, 2 units	
d. French, 2 units; German, 3 units	
e. German, 2 units; French, 3 units	
f. French *or* German, 2 units; Latin, 4 units	
g. French *or* German, 3 units; Latin, 3 units	
Elective subjects (from Groups I, II, III) to complete a total of 15 units	6 *or* 5 *or* 4

Elective Subjects

Group I

Candidates may offer any of the following subjects, not included among their prescribed subjects, without other restriction than that to offer an intermediate or advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

	COUNTING IN UNITS
Elementary Greek (page 41)	2 *or* 3
Elementary History (see note, page 42)	2 *or* 1
Drawing (page 31)	1
Music (page 47)	1
Intermediate French (page 37)	1
Intermediate German (page 39)	1
[1] Advanced English (page 36)	1
[1] Advanced Greek (page 42)	1
[1] Advanced History (page 42)	1
[1] Advanced Latin (page 45)	1
Advanced Mathematics (page 46)	½ *or* 1 *or* 1½
And, in the case of candidates for the B.S. degree, or for the two-years' course, or for thé A.B. degree if they offer 3 units of Greek:	
Elementary Latin (see note, page 44)	2 *or* 3 *or* 4
And, in the case of candidates for the two-years' course preparatory to the School of Journalism:	
Advanced French (see page 37)	1
Advanced German (see page 40)	1
Elementary Mathematics (see note, page 46)	1 *or* 2 *or* 3

[1] Candidates will be examined in this subject only in January and in September.

Group II

Candidates for the A.B. or the B.S. degree may offer not more than 4 units in all and candidates for the general two-years' course may offer not more than 6 units in all from the four subjects following:

	COUNTING IN UNITS
Elementary French (page 36)	2
Elementary German (page 38)	2
[1] Italian (page 43)	2
Spanish (page 49)	2

Group III

Candidates for the A.B. degree may offer not more than 2 units and candidates for the B.S. degree must offer not less than 2 units in all from the five subjects following:

	COUNTINGS IN UNIT
Botany (page 29)	1
Chemistry (page 30)	1
Physics (page 48)	1
Physiography (page 49)	1
Zoölogy (page 50)	1

ENTRANCE EXAMINATIONS [2]

Time. — Examinations for admission to Barnard College are held each year in January, June, and September, and, under certain circumstances, in May. In 1916 they will be held June 19–24 and September 18–23, and in 1917, January 18–24 and June 18–23.

Place. — In June the entrance examinations will be conducted by the College Entrance Examination Board, of which Columbia University is a member, at Barnard College and at a large number of widely distributed points. A list of these points will be published by the Board (Hamilton Hall, 1134 Amsterdam Avenue, New York, N. Y.) about March 1. Requests that the examinations be held at particular points should reach the Secretary of the Board not later than February 1.

In September, 1916, and January, 1917, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Admissions, and will be held only at the College.

Application for Examination. — Every candidate for examination is

[1] Candidates will be examined in this subject only in January and in September.

[2] Candidates who find that examinations are fixed for days set apart for religious purposes by the church to which they belong, and who are prevented by conscientious scruples from attending such examinations, are requested to make application to the Committee on Admissions through the Registrar of Barnard College for equitable relief. It should be noted, however, that in case alternative opportunities for taking a given examination are statedly offered, as for instance the January, June, and September entrance examinations, such students are expected to present themselves on the day which is not set apart as a holy day.

required to file an application in advance for *each series of examinations which she wishes to take*. For the examinations in June, 1916, the application must be filed with the Secretary of the College Entrance Examination Board, Hamilton Hall, 1134 Amsterdam Avenue, New York, N. Y. Applications for examination in the United States east of the Mississippi River (also at points on the Mississippi River) must be filed on or before June 5. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 29, and applications for examination at points outside of the United States and Canada must be filed on or before May 15. Requests for blank forms of application should be addressed to the Secretary of the Board.

A candidate for a competitive scholarship to be awarded on the basis of the June examinations must, in her application to the Secretary of the College Entrance Examination Board, mention the scholarship for which she is competing.

For the examinations in September, 1916, and January, 1917, applications must be filed with the Registrar of Barnard College on or before September 11, and January 11, respectively. Requests for blank forms of application should be addressed to the Secretary of Barnard College.

Examination Fee. — *The fee for each series of examinations is $5.*

Every application for examination in June must be accompanied by a fee of $5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*, for all candidates examined at points in the United States and Canada, and $15 for all candidates examined at points outside of the United States and Canada.

Every application for examination in September or in January must be accompanied by a fee of $5 in the form of a postal order, express order, or draft on New York, to the order of *Barnard College*.

If a late application is accepted either by the College Entrance Examination Board, or by the College, a second fee of $5 must be paid.

The receipt for the examination fee must be carefully preserved by the candidate and shown (not surrendered) to the supervisor in charge of the examinations as evidence of her right to be admitted to the same.

Special Examinations. — Special entrance examinations in certain subjects may be held in May, under the management of the Columbia University Committee on Admissions. Schools desiring these examinations should apply through the Secretary of Barnard College to the Committee on Admissions, which may, at its discretion, grant this privilege. The fee for each candidate for such a series of special examinations will generally be $10.

Comprehensive Examinations. — In June, 1916, the College Entrance Examination Board will hold a set of Comprehensive Examinations designed primarily to meet the needs of candidates wishing to enter Harvard, Yale, or Princeton in accordance with the Alternative Plan of Admission. Candidates for admission to Barnard College may in some instances receive permission to take certain of these examinations. *Candidates offering*

Greek at the June examinations should take a Comprehensive Examination in this subject (see page 42).

An applicant for admission by this plan must first obtain written permission from the college that she desires to enter. The particular examinations to be taken will be specified by the Committee on Admissions after inspection of the candidate's school record. Should the candidate by mistake or by design take any other examinations than those for which she has received permission, such examinations will be cancelled forthwith and can influence the candidate's record, if at all, only to her disadvantage.

The applications and examination fees of candidates desiring to take the Board's comprehensive examinations are subject to the same general rules as the applications and fees of other candidates for examination. (See page 19.)

In view of the fact that the candidate must send her application and fee to the Secretary of the College Entrance Examination Board not later than a specified date (see page 20) it will be necessary for her to complete at a still earlier date her preliminary correspondence with the Committee on Admissions.

Schedule of Examinations. — Candidates taking the examinations must report to the supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

June 19–24, 1916

Candidates may on any given morning or afternoon take a single two-hour examination or two separate two-hour examinations as indicated below. When two examinations are taken on the same half-day one must follow immediately after the other, with an interval, if the candidate request it, not exceeding ten minutes. During this brief interval the candidate will not be permitted to leave the examination room or to communicate with any one except the supervisor in charge of the examinations.

Monday, June 19

Mathematics *a* (elementary algebra complete)	9
Mathematics *a*, i (algebra to quadratics)	9
Mathematics *a*, ii (quadratics and beyond)	9
Mathematics *c* (plane geometry)	2
Mathematics *d* (solid geometry)	2

Tuesday, June 20

English 1 (grammar and composition)	9
English 2 (literature)	9
Mathematics *b* (advanced algebra)	2
Mathematics *f* (plane trigonometry)	2

Wednesday, June 21

Latin 4 (Cicero's *Manilian Law* and *Archias*, and sight translation of prose) 9
Latin 6 (advanced prose composition) 9
Latin 3 (second year Latin) 2
Latin 5 (Vergil's *Aeneid*, I, II, and IV or VI, and sight translation of poetry) 2

Thursday, June 22

French *a* (elementary) 9
French *b* (intermediate) 9
French *bc* (intermediate and advanced) 9
Spanish 9
German *a* (elementary) 2
German *b* (intermediate) 2
German *bc* (intermediate and advanced) 2

Friday, June 23

Botany 9
Chemistry 9
Geography 9
Physics 9
Zoölogy 9
History *a* (ancient) 2
History *b* (mediaeval and modern) 2
History *c* (English) 2
History *d* (American) 2

Saturday, June 24

Freehand drawing 9
Greek *a*, i (grammar) 9
Greek *a*, ii (elementary composition) 9
Greek *b* (Xenophon's *Anabasis*, I–IV) 9
Greek *f* (composition) 9
Greek *g* (sight translation of prose) 9
Music *b* (harmony) 9
Greek *c* (Homer's *Iliad*, I–III) 2

TIME SCHEDULE OF COMPREHENSIVE EXAMINATIONS

Monday	*Tuesday*	*Wednesday*
June 19	*June 20*	*June 21*
9 A.M.–12 M.	9 A.M.–12 M.	9 A.M.–12 M.
Mathematics	English	Latin

Thursday	*Friday*	*Saturday*
June 22	*June 23*	*June 24*
9 A.M.–12 M.	9 A.M.–12 M.	9 A.M.–12 M.
French	Physics	Greek
Spanish	Chemistry	
2 P.M.–5 P.M.	2 P.M.–5 P.M.	
German	History	

September 18–23, 1916, and January 18–24, 1917

Monday, September 18, and Thursday, January 18

Mathematics *a*, i (algebra to quadratics)	9.30–11.30
Mathematics *a*, ii (quadratics and beyond)	9.30–11.30
Mathematics *a* (elementary algebra, complete)	9.30–12.30
History *d* (American history)	1.30–3.30
Physics	3.45–5.45
Botany	3.45–5.45
Zoölogy	3.45–5.45

Tuesday, September 19, and Friday, January 19

Mathematics *c* (plane geometry)	9–11
Mathematics *d* (solid geometry)	9–11
Mathematics *cd* (plane and solid geometry)	9–12
History *c* (ancient history)	1.30–3.30
German *a* (elementary)	3.45–5.45

Wednesday, September 20, and Saturday, January 20

Latin 3 (second year Latin)	9–11
Mathematics *b* (advanced algebra)	9–11
Greek *a*, *b*, *c*, *f*, *g*	9–12
French *a* (elementary)	1.30–3.30
German *b* (intermediate)	3.45–5.45
German *bc* (intermediate and advanced)	3.45–5.45
Spanish	3.45–5.45
Italian	3.45–5.45

Thursday, September 21, and Monday, January 22

Latin 4 (Cicero's *Manilian Law* and *Archias*, and sight translation of prose)	9–11
Music *a* (appreciation)	9–11
Latin 5 (Vergil's *Aeneid*, I, II, and IV or VI, and sight translation of poetry)	1.30–3.30
French *b* (intermediate)	3.45–5.45
French *bc* (intermediate and advanced)	3.45–5.45
Drawing	3.45–5.45

Friday, September 22, and Tuesday, January 23

English 1 (grammar and composition)	9–11
Latin 6 (advanced prose composition)	11.15–12.30
English 2 (literature)	1.30–3.30
Chemistry	3.45–5.45
Physiography	3.45–5.45
Music *b* (harmony)	3.45–5.45

Saturday, September 23, and Wednesday, January 24

Advanced English		9–12
Advanced Greek		9–12
Mathematics *f* (plane trigonometry)	(September)	9–11
	(January)	11–1
History *c* (English history)		1.30–3.30
Advanced Latin		1.30–4.30
Advanced History		1.30–4.30
History *b* (mediaeval and modern history)		3.45–5.45

Substitutes for the Board or Barnard Examinations. — Barnard College accepts in lieu of its entrance examinations or those of the College Entrance Examination Board [1] no credentials of any sort except (1) the examination reports of the Education Department of the State of New York showing that the candidate has completed certain courses in a high school in the State of New York and that she has passed the examinations of the Education Department in these subjects (for table of equivalents, see page 25), (2) the official reports of entrance examinations taken in good faith for admission to other colleges, and (3) certain courses of the Summer Session of Columbia University (see p. 26). *These credentials are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission to Barnard College, and state in percentages the grades received in the examinations in such subjects.* Candidates must take the regular entrance examinations in the subjects in which their credentials are not deemed adequate. Except for reasons of weight credentials are not accepted as covering subjects passed more than twenty-nine months previous to the date at which the candidate intends to begin residence. No certificates from preparatory schools or from preparatory departments of colleges will be accepted in lieu of entrance examinations.

In order to be credited towards entrance, the candidate's credentials, together with (1) the statement of the extent and character of her preparation in each subject offered (see School Record, page 16), and (2) any science note-books or drawings that she has to present, must be in the hands of the Committee on Admissions on or before September 11, 1916, for admission in September, and on or before January 11, 1917, for admission in February.

[1] The numerical ratings of the Board are accepted by the College, but the passing mark is fixed by the Committee on Admissions.

State Education Department Examinations. — Candidates for admission on the credentials of the New York State Education Department should notify the Secretary of Barnard College of their intention at least six weeks prior to the opening of the term in September or in February, *i.e.*, on or before August 16, 1916, or December 27, 1916, in order that sufficient time may be allowed for obtaining their records from the Education Department.

The subjects for which the State credentials are accepted and their value in Barnard entrance units are as follows:

	State Education Department counts	Barnard units
[1] Botany (Advanced Botany)	5	1
[1] Chemistry	5	1
[1] Drawing, Elementary Design, and Elementary Representation	4	1
English, Four Years	13	3
French, Two Years	10	2
" Third Year	5	1
" Fourth Year (*for candidates for two-year course preparatory to School of Journalism*)	5	1
German, Two years	10	2
" Third Year	5	1
" Fourth Year (*for candidates for two-year course preparatory to School of Journalism*)	5	1
Greek:		
Grammar and Composition, Second Year Greek, Translation of Prose at Sight	10	2
Third Year Greek	5	
Advanced Prose Composition		1
[1] History:		
[1] Ancient	5	1
[1] Modern, Parts I and II	6	1
[1] English	5	1
[1] American	5	1
Italian	10	2
Latin (*for candidates for A.B. course*):		
Third Year Latin (Latin 4)	5	1½
Fourth Year Latin (Latin 5)	5	1½
Advanced Prose Composition (Latin 6)		1
Latin (*for candidates for B.S. or two-year course*):		
[2] Second Year Latin (Latin 3)	10	2
[2] Third or Fourth Year Latin (Latin 4 or 5)	5	1

[1] Credit cannot be secured in these subjects unless the following requirements are met:
(a) In all natural sciences, laboratory note-books, duly certified by the teachers, must be presented in accordance with the regulations stated on page 52.
(b) In Drawing at least twenty (20) freehand drawings, duly certified by the teacher must be presented in accordance with the regulations stated on page 52.
(c) In History only the five-count electives will be accepted.

[2] See note, page 44.

	State Education Department counts	Barnard units
Mathematics:		
Algebra	5	1
Intermediate Algebra	2	1
Plane Geometry	5	1
Solid Geometry	2	½
Plane Trigonometry	2	½
[1] Advanced Algebra	3	½
[2] Physics	5	1
[2] Physiography	5	1
Spanish	10	2
[2] Zoölogy (Advanced Zoölogy)	5	1

Summer Session Work in Lieu of Entrance Examinations. — A grade of C (except for Latin sZ, in which B will be required) in the following courses of the Summer Session of Columbia University will fulfill entrance requirements or remove entrance conditions in the subjects specified in each case:

Botany s1 with s1a, if taken in two successive years — for botany
Chemistry sA — for chemistry
French sA1, sA2, sA3 — for elementary French
French sB1 — for intermediate French
Geography s25 — for physiography
German sA1, sA2, sA3 — for elementary German
German sB1 with sB2 — for intermediate German
Italian s1 with s2 — for elementary Italian
Latin sZ — for advanced Latin prose composition (a grade of B required)
Mathematics sA1, sA2, s1 — for the corresponding parts of advanced mathematics
Physics sA — for physics
Spanish s1 with s2 — for elementary Spanish

Other Summer Session courses may be counted as fulfilling entrance requirements only by special permission.

Entrance Conditions and Probation. — A candidate for admission who has not secured the prescribed 15 units may be admitted to the freshman class with conditions, if, in the judgment of the Committee on Admissions, she is qualified to undertake the work of the class. General deficiency in any prescribed subject will disqualify for admission. Except for reasons of weight a student who has failed to complete a course in a good high school or preparatory school will not be admitted with conditions.

[1] Credit for the State Education Department examination in advanced algebra is uncertain and will depend upon the individual record.

[2] Credit cannot be secured in these subjects unless the following requirements are met:
(a) In all natural sciences, laboratory note-books, duly certified by the teachers, must be presented in accordance with the regulations stated on page 52.
(b) In Drawing at least twenty (20) freehand drawings, duly certified by the teacher, must be presented in accordance with the regulations stated on page 52.
(c) In History only the five-count electives will be accepted.

All entrance conditions must be removed within one calendar year from the date of entrance.

A student admitted conditionally or by credentials from another college or from the State Education Department will be held under probation during the first winter or spring session of residence. By Tuesday of the week preceding the Thanksgiving holidays, each department in which students on probation attend will make to the Committee on Instruction a special report of progress in the case of every such student. The Dean, on the recommendation of the Committee on Instruction, will as soon as practicable after the mid-year examinations decide as to each student on probation whether she shall be admitted to full standing, have her period of probation extended, or be dropped from the roll.

The mark C, B, or A, obtained at the end of the first winter or spring session of residence, in a course of a higher grade than the entrance requirement, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the college course. To remove a condition by college work a mark of at least thirty-five per cent. must have been obtained in an entrance examination. Any condition not so removed must be satisfied by a regular entrance examination for which an application must be filed and a fee paid precisely as required of a candidate for admission. (Regarding the removal of entrance conditions by work in the Summer Session of Columbia University, see page 26.)

While work done in University extension courses is not primarily accepted in lieu of entrance examinations, *entrance conditions* may be removed by a grade of at least C subsequently obtained in the appropriate extension courses. Students in college who desire to avail themselves of this privilege must submit their choice of extension courses for the approval of the Committee on Instruction as a part of their regular college work. (For the general regulations regarding the election of extension courses, see page 57.)

ADMISSION TO ADVANCED STANDING

Students who have satisfactorily completed at least a year of work at an acceptable college or scientific school or foreign institution of equivalent grade may be admitted with such advanced credit as their previous records may warrant.

Each candidate must fill out the appropriate application blank to be obtained from the Secretary, and file it with the Barnard College Committee on Admissions by September 11, 1916, for admission in September, or by January 11, 1917, for admission in February. She must also present *at that time* (1) an official statement of her academic record including entrance credits, (2) an honorable dismissal from the college which she is leaving, (3) a marked catalogue of that college plainly showing every requirement for admission and every course of instruction with which she is credited, (4) a certificate signed by an authorized representative of that

college testifying to her possession of a good moral character, and another letter from one of her instructors in regard to her character and scholarship, and (5) a certificate of sound health.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of (1) the requirements for admission to the freshman class (see page 17); (2) all the prescribed studies already pursued by the class to which she seeks admission; (3) as many elective studies as she would have pursued if she had entered the class at the beginning of the freshman year.

She may be admitted notwithstanding deficiencies in some of these studies, but will not be recommended for a degree until she shall have brought all her studies up to the point required for that degree.

The credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student prove that the granting of the credits was wholly or in part unwarranted by her previous work.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has resided less than two full sessions (winter or spring) at Barnard College. (See also paragraph 11, page 57.)

Candidates for admission to the freshman class offering by examination more than the required 15 units may be given credit toward a degree for this extra work, on a basis to be determined by the Committee on Admissions, provided that not more than 18 of the 124 points required for a degree may be gained in this way.

ADMISSION AS SPECIAL STUDENTS

A candidate for admission as a special student must fill out the appropriate application blank to be obtained from the Secretary and file it with the Committee on Admissions by September 11, 1916, for admission in September, or by January 11, 1917, for admission in February.

Special students in Barnard College are of two classes: matriculated and non-matriculated.

Matriculated Special Students. — Matriculated special students are women who wish, without taking a degree, to make a serious study of some subject or group of subjects. They must pass the regular examinations for admission to the freshman class and have full credit for fifteen (15) units of the entrance requirements. (See p. 17.) They may, therefore, in event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

Non-Matriculated Special Students. — Non-matriculated special students must be women of mature age who wish to pursue chiefly advanced courses of special study. They may be admitted at the discretion of the Committee on Admissions without passing formal entrance examinations; but they must furnish proof that they have at some time pursued the studies

included in the matriculation examinations and must satisfy the requirements of the department that they desire to enter. *Candidates desiring to pursue merely elementary courses, as in languages, etc., will not be admitted as non-matriculated special students.*

Ordinarily no work done by a non-matriculated special student may count toward a degree.

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, either been rejected or become deficient as a regular student.

Once admitted to the college, special students will be allowed to select their own courses of study subject to the general approval of the Provost, on the recommendation of the Committee on Instruction, and to the particular approval, for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in each winter or spring session courses amounting to at least eight (8) points, unless excused by the Provost, on the recommendation of the Committee on Instruction, for reasons of special weight.

In the courses which they severally pursue all special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

All special students will receive a formal statement as to the satisfactory completion of the work that they have taken.

DEFINITIONS OF REQUIREMENTS[1]

Specimens of the question papers set by Columbia University may be obtained from the Secretary upon application. The question papers of the College Entrance Examination Board are published annually in book form by Ginn & Company, Boston, Mass.

For a more detailed statement of the requirements in botany and physiography or lists of suitable laboratory experiments in chemistry and physics the reader is referred to the pamphlet of the College Entrance Examination Board containing definitions of the requirements in each subject.

BOTANY (counting one unit)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e.g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiatæ, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia* — a mildew (*Microsphœra*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphœrella*).

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[1] The relative value of subjects is expressed in units according to the time required for adequate preparation in them; a unit in the sense here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

Morphology of shoot, root, and seed. This work covers the growth, character, relation, and function of the more important tissues of the stem, leaf, bud, and root, together with a study of the more common variation of these organs. The work on the seed includes the structure and homologies of the principal types, nature of reserve food, the renewal of growth of the seed, and the development of the seedling.

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, a note-book must be submitted. (See Submission of Note-books, page 52.)

CHEMISTRY (counting one unit)

The candidate's preparation in chemistry should include:

a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.

c. Individual laboratory work, comprising at least forty exercises.

An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 52.)

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

Outline. — The chief physical and chemical characteristics, the preparation and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur,* phosphorus, silicon, potassium, *sodium,* calcium, magnesium, *zinc,* copper, mercury, silver, aluminum, *lead,* tin, *iron,* manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and

reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic and ionization theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

DRAWING (counting one unit)

The candidate's preparation in drawing should be directed toward training her in accurate observation and in definite and truthful representation of form, without attempt to represent color or color values.

The candidate should be able to draw correctly and with lines of good quality simple forms in correct perspective in the size in which they are felt in the plane of the drawing, or larger or smaller. It is recommended that pupils should be taught to draw from the object itself rather than from the flat.

The elementary principles of perspective are to be thoroughly learned, and the candidate should be able to apply them in freehand drawing from the object or from the imagination.

No definite prescription as to method of teaching is made. The examination will test the preparation of the candidate in the following points:

1. Ability to sketch from the object with reasonable correctness as to proportion, structure, and form. It is recommended that the subjects drawn include simple geometrical objects and simple natural objects such as living plant forms.
2. Ability to sketch freehand from dictation with reasonable accuracy any simple geometrical figure or combination of figures.
3. Ability to represent accurately in perspective a simple geometrical solid of which projection drawings are given, and ability to make consistent projection drawings of a simple geometrical solid of which a perspective representation is given.
4. Ability to answer questions in regard to the principles involved in making these drawings.

Every candidate must present at the time of and as part of the examination in drawing a set of freehand drawings executed during one year's course in a preparatory school and within a period of two years before the time of application for admission.

These drawings should be at least twenty in number and should display proficiency in the points mentioned in paragraphs 1, 2, and 3.

Correctness of proportion and accuracy in the angles and curves and structural relations of the parts of every figure or object drawn are of

the highest importance, and in laying out the drawings great care should be taken in the use of construction lines, and in the drawing of general masses and contour before the details are begun.

A certain proportion of shade drawings from casts may be included, but they are not required and should not form the majority of the drawings submitted.

All drawings should be of uniform size, and fastened together, not rolled.

In case the candidate has not attended a systematic course of instruction as detailed above she may submit a corresponding set of freehand drawings. (See Submission of Note-books, page 52.)

ENGLISH

Elementary (counting three units)

The entrance examinations in English are given upon the plan recommended by the National Conference on Uniform Entrance Requirements in English, and adopted by the College Entrance Examination Board. Under this plan candidates are examined separately in (1) Grammar and Composition, and (2) Literature, each examination counting as $1\frac{1}{2}$ units.

Objects of Study

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

1. Grammar and Composition. — The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from her reading in literature. Finally, special instruction in language and composition should be accompanied by the concerted effort of teachers in all branches to cultivate in the student the habit of using good English in her recitations and various exercises, whether oral or written.

2. Literature. — The second object is sought by means of two lists of books, headed respectively *Reading* and *Study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in

verse and in prose. As an aid to literary appreciation, she is further advised to acquaint herself with the most important facts in the lives of the authors whose works she reads and with their place in literary history.

(*a*) **Reading.** — The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving her a first-hand knowledge of some of its best specimens. She should read the books carefully, but her attention should not be so fixed upon details that she fails to appreciate the main purpose and charm of what she reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I:

Group I (Classics in Translation). The *Old Testament*, comprising at least the chief narrative episodes in *Genesis*, *Exodus*, *Joshua*, *Judges*, *Samuel*, *Kings*, and *Daniel*, together with the books of *Ruth* and *Esther;* the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the *Aeneid*. The *Odyssey*, *Iliad*, and *Aeneid* should be read in English translations of recognized literary excellence.

(For any selection from this group a selection from any other group may be substituted.)

Group II (Shakspere). *Midsummer Night's Dream*, *Merchant of Venice*, *As You Like It*, *Twelfth Night*, *The Tempest*, *Romeo and Juliet*, *King John*, *Richard II*, *Richard III*, *Henry V*, *Coriolanus*, *Julius Cæsar*, *Macbeth*, *Hamlet*. (No one of the last three may be taken if chosen for study under *b*.)

Group III (Prose Fiction). Malory, *Morte d'Arthur* (about 100 pages); Bunyan, *Pilgrim's Progress*, Part I; Swift, *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag); Defoe, *Robinson Crusoe*, Part I; Goldsmith, *Vicar of Wakefield;* Frances Burney, *Evelina;* Scott's Novels, any *one;* Jane Austen's Novels, any *one;* Maria Edgeworth, *Castle Rackrent*, or *The Absentee;* Dickens's Novels, any *one;* Thackeray's Novels, any *one;* George Eliot's Novels, any *one;* Mrs. Gaskell, *Cranford;* Kingsley, *Westward Ho!* or *Hereward the Wake;* Reade, *The Cloister and the Hearth;* Blackmore, *Lorna Doone;* Hughes, *Tom Brown's School Days;* Stevenson, *Treasure Island*, or *Kidnapped*, or *Master of Ballantrae;* Cooper's Novels, any *one;* Poe, *Selected Tales;* Hawthorne, *The House of the Seven Gables*, or *Twice Told Tales*, or *Mosses from an Old Manse;* a collection of *Short Stories* by various standard writers.

Group IV (Essays, Biography, etc.). Addison and Steele, *The Sir Roger de Coverley Papers*, or selections from the *Tatler* and *Spectator* (about 200 pages); Boswell, selections from the *Life of Johnson* (about 200 pages); Franklin, *Autobiography;* Irving, selections from the *Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey, *Life of Nelson;* Lamb, selections from the *Essays of Elia* (about 100 pages); Lockhart, selections from

the *Life of Scott* (about 200 pages); Thackeray, lectures on *Swift*, *Addison*, and *Steele*, in the *English Humorists;* Macaulay, any one of the following essays: *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*, *Goldsmith*, *Frederick the Great*, *Madame d'Arblay;* Trevelyan, selections from the *Life of Macaulay* (about 200 pages); Ruskin, *Sesame and Lilies*, or *Selections* (about 150 pages); Dana, *Two Years Before the Mast;* Lincoln, selections, including at least the two *Inaugurals*, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, the *Letter to Horace Greeley*, together with a brief memoir or estimate of Lincoln; Parkman, *The Oregon Trail;* Thoreau, *Walden;* Lowell, *Selected Essays* (about 150 pages); Holmes, *The Autocrat of the Breakfast Table;* Stevenson, *An Inland Voyage* and *Travels with a Donkey;* Huxley, *Autobiography* and selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk;* a collection of *Essays* by Bacon, Lamb, De Quincey, Hazlitt, Emerson, and later writers; a collection of *Letters* by various standard writers.

Group V (Poetry). Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under *b*); Goldsmith, *The Traveller* and *The Deserted Village;* Pope, *The Rape of the Lock;* a collection of English and Scottish *Ballads*, as, for example, some *Robin Hood* ballads, *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick and Grahame*, *Sir Patrick Spens*, and a selection from later ballads; Coleridge, *The Ancient Mariner*, *Christabel*, and *Kubla Khan;* Byron, *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon;* Scott, *The Lady of the Lake*, or *Marmion;* Macaulay, *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry;* Tennyson, *The Princess*, or *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur;* Browning, *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa — Down in the City*, *The Italian in England*, *The Patriot*, "*De Gustibus —*", *The Pied Piper*, *Instans Tyrannus;* Arnold, *Sohrab and Rustum*, and *The Forsaken Merman;* selections from *American Poetry*, with special attention to Poe, Lowell, Longfellow, and Whittier.

(*b*) **Study.** — This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The books provided for study are arranged in four groups, from each of which one selection is to be made.

Group I (Drama). Shakspere, *Julius Cæsar*, or *Macbeth*, or *Hamlet.*

Group II (Poetry). Milton, *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas;* Tennyson, *The Coming of Arthur*, *The Holy Grail*, and *The Passing of Arthur;* the selections from Worsdworth, Keats, and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

GROUP III (Oratory). Burke, *Speech on Conciliation with America;* Macaulay's *Two Speeches on Copyright* and Lincoln's *Speech at Cooper Union;* Washington's *Farewell Address* and Webster's *First Bunker Hill Oration.*

GROUP IV (Essays). Carlyle, *Essay on Burns,* with a selection from Burns's *Poems;* Macaulay, *Life of Johnson;* Emerson, *Essay on Manners.*

Examination

However accurate in subject matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts.

1. Grammar and Composition. — In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from her personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make her own selections. She will not be expected to write more than four hundred words per hour.

2. Literature. — The examination in literature will include:

(*a*) General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under (*a*) **Reading,** above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which she was prepared; but this list will not be made the basis of detailed questions. This certified list must be submitted at or before the opening of the examination in English 2. Blank forms for certification may be secured from the Secretary.

(*b*) A test on the books prescribed for study, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

Essays written during the candidate's high-school course in English, and properly certified, may be submitted in connection with the Columbia University examination in English 2 in January and September; but the submission of such essays will not exempt the candidate from examination in this subject. (See Submission of Note-books, page 52.)

Advanced (counting one unit)

Candidates should have had substantially the same training as that prescribed for freshmen under English A1–A2. They will be examined in the principles of effective organization and expression as set forth in any good text-book of rhetoric and as exemplified in the following works prescribed for reading: Two of the essays of William Hazlitt, and two of Lamb's *Essays of Elia*, Carlyle's *Past and Present*, Newman's *Literature*, about one-fourth of Holmes's *Autocrat of the Breakfast Table*, Lincoln's *Debate with Douglas at Alton*, Arnold's *Sweetness and Light*, Mill's *Subjection of Women*, Huxley's *A Piece of Chalk*, Lowell's *Democracy*, a good English or American novel written since 1880, a good modern play in English, and two short stories by each of the following authors: Hawthorne, Poe, Stevenson, and Kipling. The examination will test a candidate's grasp of expository, argumentative, descriptive, and narrative methods, and will call for specific comment and comparison on points of style.

At least two weeks before the examinations begin each candidate must have filed with the Secretary of the College the following manuscripts duly certified (see Submission of Note-books, page 52): two (2) essays of about 1000 words each, or four (4) essays of about 500 words each, on topics related to the prescribed reading; two (2) essays of about 1000 words each on topics not related to the prescribed reading; one (1) consecutive argument of at least 1000 words; one (1) piece of narrative, at least 1000 words, or short descriptions in number sufficient to make up at least the same amount.

FRENCH

NOTE. — Beginning in June, 1917, the entrance examinations in Elementary and Intermediate French will include an Elementary Aural Test to be designated as French *x* supplementary to the present examination which is designated French *a*, and an Intermediate Aural to be designated as French *y* supplementary to the present examination which is designated *b*. The candidates in *x* and *y* will be examined in groups of not more than seventy-five in order that the examiner may be heard without difficulty.

In general character these tests will be similar to those described under the requirements in German.

a. **Elementary** (counting two units)

The Aim of the Instruction. — At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

The Work to be Done. — During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in

the memory the forms and principles of grammar but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: Daudet, *Le Petit Chose;* Erckmann-Chatrian, stories; Halévy, *L'Abbé Constantin;* Labiche et Martin, *Le voyage de M. Perrichon;* Lavisse, *Histoire de France.*

b. **Intermediate** (counting one unit)

The Aim of the Instruction. — At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

The Work to be Done. — This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are: Bazin, *Les Oberlé;* Dumas, novels; Mérimée, *Colomba;* Sandeau, *Mlle. de la Seiglière;* Tocqueville, *Voyage en Amérique.*

c. **Advanced** (counting one unit for candidates for the two-years' course preparatory to the School of Journalism only)

The Aim of the Instruction. — At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

The Work to be Done. — This should comprise the reading of from 600 to 1000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable texts for the fourth year are: Dumas fils, *La question d'argent;* Hugo, *Quatre-vingt treize, Les misérables;* Loti, *Pêcheur d'Islande;* Taine, *L'Ancien régime;* Vigny, *Cinq-Mars;* an anthology of verse.

GERMAN

NOTE. — Beginning in June, 1917, the entrance examinations in Elementary and Intermediate German will include an Elementary Aural Test to be designated as German *x* supplementary to the present examination which is designated German *a*, and an Intermediate Aural to be designated as German *y* supplementary to the present examination which is designated *b*. The candidates in *x* and *y* will be examined in groups of not more than seventy-five in order that the examiner may be heard without difficulty.

a. **Elementary** (counting two units)

To secure credit for Elementary German (in June, 1917, and thereafter), candidates will be required to offer both *a* and *x*. Those who pass *a* but do not pass *x*, will not be required to repeat the examination in *a*. Those who fail in *a*, however, must repeat also the examination in *x*. No part of the two units will be credited until both *a* and *x* shall have been passed.

x. **Aural test:** (1) Writing easy German prose from dictation. (2) Writing in English the content of a short "unseen" passage of easy German prose read aloud by the examiner. (3) Writing in German answers to easy oral questions in German on a short connected passage read by the candidates immediately before the questions are asked.

Candidates who pursue the study of German after admission to college will be subjected to an individual test in reading and pronunciation, but credit for admission will not depend upon such test.

a. **Grammar, reading, and elementary prose composition:** (1) The rudiments of grammar, including the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order. (2) Translation at sight into English of easy dialogue or narrative prose. (3) Translation into German of easy detached sentences from the language of every-day life illustrative of elementary grammatical principles and of simple idioms.

Aim of the Instruction. — During the elementary course in German pupils should be taught to read and to understand, when read to them, easy prose. They should also receive systematic training in the oral and written use of the foreign language and be able to turn short, easy English sentences into German.

During the first year the work should comprise: (1) Careful drill in pronunciation. Especial attention should be given at all times to reading aloud and to work in dictation. (2) Systematic study of the essentials of grammar should be begun. Abundant oral and written exercises, definitely planned to enable pupils to use the various parts of speech in sentence form, should always supplement the learning of paradigms and rules. (3) A small amount (40–50 pages) of prepared reading, of such a character as to lend itself easily to question and answer work and to other kinds of oral and written exercises in the foreign language. Very easy sight-reading should supplement the prepared work. If translation from

the mother tongue is used the first year, the exercises should be limited to easy variations of language material that the pupils have well in hand through previous careful study.

During the second year the essentials of grammar should be completed. Greater emphasis should be given during this year to reading. Some of the easy texts should be read rather rapidly, with sufficient practice in translating into English and partly at sight; others, in whole or in part, should be made the basis of oral and written exercises to increase the pupils' power in the use of the foreign language. Simple dictation and exercises in translating orally and in writing from the mother tongue should regularly accompany the intensive study of the text. This work should be supplemented by reproduction, first in English, later in simple German, of the content of short, easy "unseen" passages read aloud by the teacher. The prepared reading in the second year should not exceed 125 pages; at least 50 pages should be read at sight.

Suitable texts for the elementary course are: after 40–50 pages of very simple reading matter in a beginners' book or elementary reader, Andersen's *Märchen;* selections from Baumbach's short stories; Schmid's *Heinrich von Eichenfels;* Volkmann-Leander's *Kleine Geschichten;* one-act plays (such as those of Benedix); selections from Hauff's *Märchen;* Blüthgen's *Das Peterle von Nürnberg.* Especially suited for girls' classes are: Andersen's *Bilderbuch ohne Bilder;* Volkmann-Leander's *Träumereien;* Hillern's *Höher als die Kirche;* Gerstäcker's *Germelshausen.*

Very easy prose texts *not used for assigned work* should be read at sight. Suitable for this purpose are: selections from Grimm's *Märchen,* Goebel's *Rübezahl, Die Schildbürger* and *Till Eulenspiegel.*

b. Intermediate (counting one unit)

To secure credit for intermediate German, candidates will be required beginning with the year 1917 to offer both *b* and *y*. The regulations governing examinations and credit are the same as those stated for Elementary German.

y. **Aural test:** (1) Writing moderately difficult German from dictation. (2) Writing in German the content of an "unseen" passage of ordinary narrative prose, read aloud by the examiner. (3) Writing in German answers to oral questions, in German, on a connected passage read aloud by the examiner.

b. **Grammar, reading, and intermediate prose composition:** (1) The principles of German grammar in their application to ordinary prose, including syntax, word-order, word-formation, and indirect discourse. (2) Interpretation by means of paraphrase, synonymy, or translation into English of moderately difficult prose or poetry, recent or classical. (3) Translation into German of easy connected prose or the original composition in German of a simple passage.

Aim of the Instruction. — The aim of the intermediate course is to increase the pupils' power to read and control the foreign language. The

various oral and written exercises and the sight-reading practice of the second year should be continued. In oral reading attention should be given to intonation and sentence stress as well as to correctness of pronunciation.

At the end of the course pupils should be able to read at sight selections of modern German prose or poetry not too difficult either in thought or form; to understand and reproduce in German short, easy selections read to them; to turn into German connected English prose, simple as to form and vocabulary. They should not only have a working knowledge of grammar but be able also, if called upon, to state clearly and accurately the essential rules.

The reading (350–400 pages) should largely be confined to writers of the modern period. Some of the texts chosen should be read as quickly as is possible consistent with careful work; others should be studied more intensively for both the language and the thought.

Suitable texts for the intermediate course:

(A) For mixed classes: 1. Narrative prose — Storm, *Immensee;* Gerstäcker, *Irrefahrten;* Zschokke, *Das Abenteuer der Neujahrsnacht;* Baumbach, *Das Habichtsfräulein,* or *Der Schwiegersohn;* Arnold, *Fritz auf Ferien;* Ebner-Eschenbach, *Krambambuli;* Riehl, *Der stumme Ratsherr;* Schücking, *Die drei Freier;* Keller, *Kleider machen Leute;* Raabe, *Die schwarze Galeere;* Otto Ernst, *Asmus Sempers Jugendland.*

2. Plays — Moser, *Der Bibliothekar;* Fulda, *Unter vier Augen;* Freytag *Die Journalisten;* Fulda, *Der Talisman,* or *Das verlorene Paradies;* Schiller, *Wilhelm Tell.*[1]

(B) Especially suited for girls' classes: Seidel, *Leberecht Hühnchen;* Rosegger, *Das Holzknechthaus;* Fouqué, *Undine;* Jensen, *Die brauen Erica;* Auerbach, *Brigitta;* Storm, *Pole Poppenspäler.*

For oral drill and colloquial practice, a book dealing with German life, customs and institutions and written in the simplest conversational German should be used.

A liberal amount of reading at sight should be done, using texts not otherwise studied and easier than the regular class texts.

c. **Advanced**[1] (counting one unit for candidates for the two-years' course preparatory to the School of Journalism only)

The Examination in Advanced German is similar in form to that in Intermediate German (*b*), with the requirement that the candidate be able to interpret at sight any modern German prose or verse involving no technical vocabulary, and to write an original theme with reasonable fluency and correctness. An aural test is not required in Advanced German. Candidates offering Intermediate and Advanced German (*bc*) must take the intermediate aural test (*y*).

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[1] In schools with a four-years' course, Schiller's *Wilhelm Tell* should be reserved for the last year. For the benefit of schools with a three-years' course, several works listed under Advanced German are indicated (marked *) as suitable for use at the end of the third year.

The Work to be Done in the advanced course differs from that in the preceding courses only in amount and degree. The copious reading of numerous modern texts and the intensive study of a few masterpieces selected from the classic and the modern period (in all not less than 500 pages) should occupy the major portion of the time. In addition to the kinds of oral and written work done in the previous courses pupils should have some training in writing short independent themes on simple topics. Considerable attention should also be given to the study of vocabulary as to form and meaning.

Suitable texts for the advanced course:

(A) For mixed classes: 1. Classic drama (*one* of these works should be studied *intensively*): Schiller, *Wilhelm Tell,** *Jungfrau von Orleans, Maria Stuart;* Lessing, *Minna von Barnhelm;* Goethe, *Egmont.*

2. Other plays: Grillparzer, *Die Ahnfrau,** *Der Traum ein Leben;* Kleist, *Der Prinz von Homburg;* Wildenbruch, *Harold;* Otto Ernst, *Flachsmann als Erzieher.*

3. Narrative prose: Heine, *Die Harzreise;* Hauff, *Lichtenstein;** Freytag, *Soll und Haben;* Sudermann, *Frau Sorge;** Meyer, *Das Amulett;* Frenssen, *Jörn Uhl;* Fontane, *Grete Minde.*

4. Historical prose: Selections from Schiller, *Geschichte des Dreissigjährigen Krieges,* or from Freytag, *Bilder aus der deutschen Vergangenheit.*

5. A selection of German lyrics and ballads.

(B) Especially suited for girls' classes: Scheffel, *Der Trompeter von Säkkingen;** Riehl, *Burg Neideck;* Heyse, *Die Blinden;** Hoffmann, *Meister Martin der Küfer und seine Gesellen;* Freytag, *Die verlorene Handschrift;* Raabe, *Else von der Tanne.*

In general, texts should be read rapidly; but see last paragraph under elementary reading list. For colloquial practice specially prepared books dealing with modern life or historical and literary material are recommended.

GREEK

Elementary (counting two or three units)

NOTE. — To secure credit for two units in Greek, candidates must offer *a*, *b*, and *g*. To secure credit for three units they must offer *a*, *b*, *c*, *f*, and *g*.

a. i. **Grammar.** The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

ii. **Elementary prose composition.** Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis.*

b. **Xenophon.** The first four books of the *Anabasis.*

c. **Homer.** The first three books of the *Iliad* (omitting II, 494–end) and the constructions, poetical forms, and prosody of Homer's *Iliad.*

f. **Prose composition.** Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

g. **Sight translation of prose.** Translation into English at sight based on prose of no greater difficulty than Xenophon's *Anabasis.*

Examinations

Hereafter a composite paper will be offered from which those desiring to be examined in Greek *a* or in Greek *a*, *b* and *g* or in Greek *e* and *f* or in the whole of Greek should select certain specified questions. Candidates taking the examinations in Greek given by the College Entrance Examination Board should take the "*comprehensive*" examinations (see pages 20, 22).

Advanced (counting one unit)

Candidates offering Advanced Greek will be required to have covered substantially the same ground as that included under Greek 5, 6. In Homer, for which no equivalent will be accepted, the minimum requirement will be 1200 lines in addition to the amount offered for the elementary examination. The candidate must also offer Plato's *Apology*, and Lucian, 50 pages in the Teubner text, and in prose composition at least fifteen exercises in Spieker's Greek Prose Composition. If candidates wish to offer equivalents for the portions of Plato or Lucian named above, they must designate them when they apply for examination in this subject.

HISTORY

Elementary

NOTE. — Each of the four divisions, *a*, *b*, *c*, and *d*, counts one unit. Candidates for admission to the A.B. or B.S. or the general two-years' course may offer any one or any two of the divisions without restriction. Candidates for admission to the two-years' course preparatory to the School of Journalism must offer two units and may offer three or four units.

a. **Ancient history,** including a brief introductory study of the Oriental peoples, and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.

b. **Mediæval and modern history,** from the death of Charlemagne to the present time, with due reference to the growth of the state-system.

c. **English history,** with due reference to social and political development.

d. **American history,** with the elements of civil government.

On examination a candidate must show such general knowledge of the subject in each division offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. *Since the questions will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil,* it is recommended that the teacher prescribe a course of supplementary reading of not less than three hundred pages, dealing with the more important periods and events in each division offered. Geographical knowledge will be tested by requiring the location of places, boundaries, and movements on an outline map.

Advanced (counting one unit)

Candidates offering Advanced History will be required to have performed work of the same kind, amount, and quality as that required for

History A1–A2 — the course prescribed in Barnard College. The work done at school, therefore, should be substantially identical with that course, the nature of which is explained in a syllabus that may be obtained at the University Bookstore. Those candidates who desire to offer history as an advanced subject must have offered for elementary history either *a* and *b*, or *c* and *d*, and must present themselves for examination upon the two divisions *which they did not offer as an elementary subject.* The examination will presuppose superior ability on the part of the candidate to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results. Especial care should be exercised, therefore, in the selection of the supplementary reading on the more important periods and events in each of the two divisions.

As further evidence of proficiency, satisfactory written work must be presented in the form of a note-book, or bound collection of notes (see Submission of Note-books, page 52), which must contain not less than five thousand words on each division offered, and must show practice in at least three of the following exercises:

(*a*) Notes and digests of reading outside of the text-books.

(*b*) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.

(*c*) Written parallels between historical characters, events, or periods.

(*d*) Brief studies of topics limited in scope, prepared outside the classroom and illustrated by some reference to contemporary material.

(*e*) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

ITALIAN

Elementary (counting two units)

NOTE. — Beginning in June, 1917, the examination in this subject will include an Aural Test similar in character to that described under Elementary German.

The Aim of the Instruction. — At the end of the course the pupil should be able to pronounce Italian accurately, to read at sight easy Italian prose, to put into Italian simple English sentences taken from the language of every-day life, or based upon a portion of the Italian text read, and to answer correctly questions on the rudiments of the grammar, as defined below.

The Work to be Done. — During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) abundant exercises illustrating the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Italian of easy variations of the sentences read; (5) writing Italian from dictation,

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors and of easy

poetry; (2) practice in translating Italian into English, and English variations of the text into Italian; (3) continued study of the elements of grammar and of syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Italian from dictation.

Suitable texts for the second year are: E. de Amicis's *Cuore;* G. Giacosa's *Acquazzoni in montagna;* P. Zambri's *Il caporale di settimana;* G. Gozzi's *Poesie e prosce,* scelte da A. Pippi; G. C. Abba's *Da Quarto al Volturno;* Guido Zalorsi's *Guardare e pensare;* S. Zarira's *Il Signor Io;* A. Stoppani's *Il bel paese.*

LATIN

Elementary

NOTE. — Candidates for admission to the A.B. course (except those who offer three units of Greek) must offer 4, 5, and 6, to secure the four prescribed units. Candidates for admission to the B.S. course or the two-years' course, and candidates for admission to the A.B. course who offer three units of Greek, may offer two, three, or four units from this subject. Such candidates must offer 3 to secure two units; and, to secure three units, 3 with either 4 or 5.

Either Latin 4 or Latin 5 may be offered as one of the "intermediate" or "advanced" subjects required for admission to the B.S. course.

3. Second year Latin will presuppose reading not less in amount than Cæsar, *Gallic War,* I–IV, selected by the schools from Cæsar (*Gallic War* and *Civil War*) and Nepos (*Lives*); but the passages set will be chosen with a view to sight translation. The paper will include easy grammatical questions and some simple composition. (See note above.)

4. Cicero and sight translation of prose.

i. Prescribed reading: the oration for the Manilian Law and the oration for Archias.

ii. Sight translation of prose of no greater difficulty than ordinary passages of Cicero's orations.

Candidates must deal satisfactorily with both these parts of the paper, or they will not receive credit for either part.

5. Vergil and sight translation of poetry.

i. Prescribed reading: Vergil's *Aeneid,* I, II, and either IV or VI at the option of the candidate, with questions on the subject-matter, literary and historical allusions, and prosody.

ii. Sight translation of poetry of no greater difficulty than Vergil's *Aeneid.*

Candidates must deal satisfactorily with both these parts of the paper, or they will not receive credit for either part.

6. Advanced prose composition. The examination will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for will be such as are common in the reading of the preparatory course of four years.

The foregoing requirements are in substance identical with those recommended for adoption by the American Philological Association at its annual meeting in December, 1909, viz.:

I. Amount and Range of the Reading Required

1. The Latin reading required of candidates for admission to college, without regard to the prescription of particular authors and works, shall be not less *in amount* than Cæsar, *Gallic War*, I–IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, *Aeneid*, I–VI.

2. The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (*Gallic War* and *Civil War*) and Nepos (*Lives*); Cicero (orations, letters, and *De Senectute*) and Sallust (*Catiline* and *Jugurthine War*); Vergil (*Bucolics*, *Georgics*, and *Aeneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*).

II. Subjects and Scope of the Examinations

1. *Translation at Sight.* — Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

2. *Prescribed Reading.* — Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, *Aeneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

3. *Grammar and Composition.* — The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

Advanced (counting one unit)

Candidates offering Advanced Latin will be required to have covered substantially the same ground as that included under Latin A1, A2, the course prescribed for freshmen. In Horace and Catullus, for which no equivalent will be accepted, the minimum requirement will be the first and third books of the Odes, and selections from the shorter poems of Catullus amounting to four hundred lines, together with a satisfactory knowledge of the prosody. The candidate must also offer Livy, Book XXI (chapters 1–45 inclusive), and Book XXII (chapters 2–7 and 43–56 in-

clusive), Terence's *Phormio* (entire), and Gildersleeve and Lodge's Prose Composition, exercises 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57. If candidates wish to offer equivalents for the portions of Livy or Terence named above, they must designate them when they apply for examination in this subject.

MATHEMATICS

Elementary (counting three units)

NOTE. — Candidates for admission to the A.B., the B.S., or the general two-years' course must offer *a*, i and ii, and *c* to secure the three prescribed units. Candidates for admission to the two-years' course preparatory to the School of Journalism may offer one or more units from the following: Mathematics *a*, i, one unit; *a*, ii, one unit; *c*, one unit.

a. **Elementary algebra** (counting two units).

i. The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative.

ii. Quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities that can be solved by the methods of linear or quadratic equations; problems depending upon quadratic equations; the binomial theorem for positive integral exponents; the formulas for the *n*th term and the sum of the terms of arithmetic and geometric progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

c. **Plane geometry** (counting one unit). — The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

Advanced (counting one-half, one, or one and one-half units)

NOTE. — A candidate may offer one or more of the following subjects, each of which is equivalent to one-half unit.

For admission to the college course in Analytic Geometry in the freshman year, the student must have offered Plane Trigonometry at entrance and must take in the freshman year those parts of Mathematics A the equivalents of which were not offered at entrance.

b. **Advanced algebra.** — Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical

equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

d. **Solid geometry.** — The usual theorems and constructions of good text-books; including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

f. **Plane trigonometry.** — Definitions and relations of the six trigonometric functions as ratios, circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique plane triangles, and practical applications.

MUSIC (counting one unit)

NOTE. — The candidate may offer either *a* or *b*.

a. Musical Appreciation (counting one unit)

The candidate is expected to have:

1. A general knowledge of the principal musical forms — song, classic dance, fugue, sonata (all movements), symphony — and of their historical development.

2. A general knowledge of the lives and environment of at least ten composers including Bach, Mozart, Beethoven, Schubert, Chopin, and five of the following: Handel, Gluck, Haydn, Weber, Mendelssohn, Schumann, Wagner, Verdi, Brahms, Tschaikowsky, Grieg, MacDowell.

3. [1] Familiarity with certain designated works:

Bach:	Prelude II and Fugue II, Book I, Well-Tempered Clavichord.
	Gavotte from Sixth English Suite.
Handel:	The Hallelujah Chorus.
Haydn:	Slow Movement from "Emperor" Quartet (op. 76, No. 3).
Mozart:	Symphony in G Minor (entire).
Beethoven:	Sonata (op. 31, No. 3, entire).
	Slow Movement from Second Symphony.
	First Movement from Seventh Symphony.
Schubert:	First Movement from Unfinished Symphony.
	Song, "The Erl-King."
	Song, "Hark, Hark, the Lark."

[1] The examination in (3) will be held only in September and in January, and will be open only to candidates who have passed the examination in (1) and (2).

Mendelssohn:	Overture to "Midsummer Night's Dream."
Chopin:	Ballade (op. 47).
	Polonaise (op. 26, No 1).
	Nocturne (op. 37, No. 2).
Schumann:	Allegro from Faschingsschwank (op. 26, No.1).
	Song, "Im wunderschönen Monat Mai."
Wagner:	Overture to "Tannhäuser."
	Prize Song from "Die Meistersinger."

In the examination in (3) the candidate will be expected to identify characteristic portions of the works set, when played by the examiner, and to give intelligent information concerning the form and character of the works themselves. The test will not require ability to perform or to read from printed music.

b. **Harmony** (counting one unit)

The candidate should have acquired:

1. The ability to harmonize, in four vocal parts, simple melodies of not fewer than eight measures, in soprano or in bass — these melodies will require a knowledge of triads and inversions, of diatonic seventh chords and inversions, in the major and minor modes; and of modulation, transient or complete, to nearly-related keys.

2. Analytical knowledge of ninth chords, all non-harmonic tones, and altered chords (including augmented chords). [Students are encouraged to apply this knowledge in their harmonization.]

It is urgently recommended that systematic ear-training (as to interval, melody, and chord) be a part of the preparation for this examination. Simple exercises in harmonization at the pianoforte are recommended. The student will be expected to have a full knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use.

PHYSICS (counting one unit)

The candidate should be familiar with the elementary principles of physics and some of their practical applications and should be able to solve simple numerical problems. The preparation of the candidate should include:

(*a*) The study of one of the standard text-books in use in secondary schools.

(*b*) Instruction by lecture-table demonstrations in which the phenomena of physics are shown and the principles qualitatively illustrated.

(*c*) Individual laboratory work, comprising at least thirty exercises. A suitable selection of experiments may be made from the list published by the College Entrance Examination Board. An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 52.)

PHYSIOGRAPHY (counting one unit)

NOTE. — This is identical with the subject called Geography by the College Entrance Examination Board.

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate. Each division of the subject should receive approximately the same proportion of attention in the laboratory as in the class-work. It is suggested that the exercises be divided somewhat as follows: Earth as a Globe, 5; Ocean, 5; Atmosphere, 12; Land, 18. An indexed note-book containing the record of these exercises must be submitted. (See Submission of Note-books, page 52.)

SPANISH

Elementary (counting two units)

NOTE. — Beginning in June, 1917, the entrance examinations in Spanish will include an Aural Test to be designated as Spanish *x* supplementary to the present examination. The candidates in *x* will be examined in groups of not more than seventy-five in order that the examiner may be heard without difficulty.

The aural test (*x*) (to be given in June, 1917, and thereafter) will consist of three parts:

1. A ten-minute exercise in writing easy Spanish prose from dictation.
2. Written reproduction, in English, of the content of a short passage in easy Spanish prose, to be read by the examiner.
3. Written answers in Spanish to easy questions read by the examiner in Spanish, the questions to be of two types: (*a*) On general topics, such as would be used in elementary practice of the schoolroom. (*b*) On a connected prose passage, to be read by the candidates (and returned) just before the questions are asked.

The Aim of the Instruction. — At the end of the course, the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

The Work to be Done. — During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax;

(4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde;* Alarcón's *El final de Norma, El capitán Veneno;* Valdés's *José;* Galdós's *Doña Perfecta, Marianela;* Padre Isla's version of *Gil Blas;* Carrion and Aza's *Zaragüeta.*

ZOÖLOGY (counting one unit)

The following outline includes the principles of zoölogy which are indispensable to a general survey of the science. It is planned for a full year's course. It is not intended to indicate order of study of the topics — this must be left to the teacher and the text-book.

1. The general natural history — including general external structure in relation to adaptations, life histories, geographical range, relations to other plants and animals, and economic relations — of common vertebrates and invertebrates so far as representatives of these groups are obtainable in the locality where the course is given. The types suggested are a mammal, bird, lizard, snake, turtle, newt, frog, dogfish or shark, bony fish, clam, snail, starfish, earthworm, planarian, hydra, sea-anemone, paramœcium. In the case of arthropods, pupils should become familiar with common crustaceans, spiders, myriapods, and insects representing at least five orders. Actual examination of common animals with reference to the above points should be supplemented by reading giving natural-history information.

It is not expected that there will be time for making extensive note-books on the natural-history work; rather will the work in this line take the form of laboratory demonstrations. So far as time permits, drawings and notes should be made. The note-book mentioned below should contain at least drawings on the external structure of four animals not studied under Section 3, preferably two insects, a mollusk, and a second vertebrate.

2. The classifications of animals into phyla and leading classes (except the modern subdivisions of the worms) and the great characteristics of these groups — in the case of insects and vertebrates the characteristics of the prominent orders. The teaching of classification should be by practical work so as to train the pupil to recognize animals and to point out the chief taxonomic characteristics. The meaning of species, genera, and larger groups should be developed by constructive practical work with representatives of insect or vertebrate orders.

3. The general plan of external and internal structure, not the anatomical minutiæ, of one vertebrate (preferably frog or fish) in general comparison with the human body; an arthropod (preferably a decapod); an annelid (earthworm or Nereis); a cœlenterate (hydroid, hydra, or sea-anemone); a protozoön (a ciliate, and amœba when possible). In place of any of the above types not locally available there may be substituted a second vertebrate, an insect, a mollusk, or an echinoderm. Tissues, the study of which is recommended as optional,[1] should be examined first with the unaided eye, in such a structure as a frog's leg, and then with a micro-

[1] Topics marked "optional" are regarded as desirable for the best high-school zoölogy but will not be required in examinations.

scope to demonstrate the relations of cells and intercellular substance in epithelium and cartilage and, if possible, in other tissues. The functions of the chief tissues and their positions in the body of a vertebrate should be pointed out.

4. (*a*) The general physiology of the above types, involving the essentials of digestion, absorption, circulation (respiration), cell-metabolism, secretion, excretion, and nervous functions. This should apply comparatively the essentials of elementary work in human physiology. Demonstrations and experiments, such as are suggested in high-school text-books on human physiology, should be introduced, or recalled if not previously well presented in elementary physiology, in connection with discussion of the chief functions. As far as practicable structure and function should be studied together.

(*b*) Comparison of the general life-processes in animals and plants (in connection with botany if zoölogy is first studied).

5. The very general features of asexual reproduction of a protozoön (preferably *Paramœcium*); alternation of generations in hydroids; reproduction and regeneration of *Hydra;* the very general external features of embryological development in a fish or frog; and (*optional*) the general cellular nature (not centrosomes and the like) of germ-cells, fertilization, and cell-division in developing eggs should, as far as possible, be demonstrated and briefly described. Also, the most interesting features of development should be pointed out in the case of other animals studied.

6. The prominent evidence of relationship suggesting evolution, within such groups as the decapods, the insects, and the vertebrates should be demonstrated. A few facts indicating the struggle for existence, adaptation to environment, variations of individuals, and man's selective influence should be pointed out; but the factors of evolution and the discussion of its theories should not be attempted.

7. (*Optional.*[1]) Some leading facts regarding the epoch-making discoveries of biological history and the careers of such eminent naturalists as Darwin, Huxley, Pasteur, and Agassiz should be presented.

The above outline of a course in general zoölogy should be developed on the basis of a course of laboratory study guided by definite directions. This should be supplemented by the careful reading of at least one modern elementary text-book in general zoölogy. At least two-thirds of the time should be devoted to the practical studies of the laboratory. If good nature-studies have not preceded the course in high-school zoölogy, pupils should be encouraged to do supplementary work in the line of natural history. A note-book with carefully labeled outline drawings of the chief structures studied anatomically (Section 3), and the drawings mentioned under natural history (Section 1), and with notes on demonstrations and in explanation of drawings, with dates and an index, must be submitted. It will be graded as one-third of the examination. (See Submission of Note-books, page 52.)

[1] Topics marked "optional" are regarded as desirable for the best high-school zoölogy but will not be required in examinations.

SUBMISSION OF NOTE-BOOKS, DRAWINGS, ETC.

Each candidate must present at the time of the examination her laboratory note-book, properly indexed. This book must bear the certification of the teacher in the following form:

Teacher's Certificate

.....School
.....19....

I certify that.....has personally performed, as recorded by her in this note-book,.....experiments in the..... laboratory of the.....School, during the year .....

The laboratory course has occupied time equal to.....hours of 60 minutes each.

Signed.....
Teacher of.....

The teacher may here record the final grade on this laboratory work of.....per cent.

Drawings should bear a similar certification, or, in case of work not done under instruction, should be accompanied by the candidate's own signed declaration.

All note-books, unless otherwise specified, should be submitted at the time of examination.

The College Entrance Examination Board no longer requires the submission of drawings or laboratory note-books. Candidates for admission to Barnard who are taking the examinations of the College Entrance Examination Board should therefore send the note-books, properly certified, to the Secretary of Barnard College. The books should be submitted during the week of the examinations of the College Entrance Examination Board.

Candidates submitting laboratory note-books or drawings with the credentials of the State Education Department should send them to the Secretary of Barnard College *at least* one week before the September or January entrance examinations — *i.e.*, by September 11, 1916, or January 11, 1917.

English exercise books, submitted in connection with the Columbia University examinations in English 2 (see page 35), Advanced English essays or Advanced History note-books should be sent to the Secretary of the College *at least two weeks before* the examinations begin. No separate ratings will be given on note-books in Advanced English and Advanced History, but the note-books will be read in connection with the examinations in these subjects. English essays will *not* be returned to the writers.

All note-books uncalled for one year from the date of submission will be destroyed.

REGISTRATION AND ENROLMENT

Matriculation. — All properly qualified students, with the exception of those classed as non-matriculated special students (see p. 28), may matriculate at Barnard College either as candidates for a degree or as special students who are permitted to attend such courses as they are qualified to take but who are not enrolled as candidates for a degree.

Registration. — Before attending any academic exercise every student must comply with the regulations in regard to registration and payment of fees. She must present herself in person to furnish the information necessary for the College records.

Enrolment for Courses. — Every new student must also at the time of registration file a statement of the courses which the Provost, on the recommendation of the Committee on Instruction, has authorized her to pursue. Students already in College are required to give notice of their choice of elective courses for the ensuing year to the Registrar on or before Friday, May 12, 1916. Proper blanks for this purpose will be provided by the Registrar's office. Students should not confuse the filing of elective blanks with registration.

The office of the Registrar will be open for registration from Wednesday, September 20, to Tuesday, September 26, 1916, and on Monday and Tuesday, February 5 and 6, 1917. New students may register also on the day following each of these periods.

Students registering later must pay an additional fee of $5. They may, however, if unable through no fault of their own to complete their registration, file a provisional statement within the statutory period. Students will be held accountable for absences incurred owing to late registration.

Every student who holds a scholarship must present her scholarship certificate to the Bursar at the time of registration.

Leave of Absence. — The Dean, on the recommendation of the Committee on Instruction, may for reasons of weight grant a leave of absence to a student in good standing.

Honorable Dismissal. — A student in good standing desiring an honorable discharge from the College should apply in writing to the Registrar.

GENERAL STATEMENT REGARDING FEES AND THE REGULATIONS GOVERNING THEIR PAYMENT

All fees are payable in advance at the Bursar's Office. Every student who fails to register within the limits of time fixed by the regulations of the University shall be permitted to register only with the consent of the Dean, and by the payment of an additional fee of $5. Students who enter late are required to pay the full charge for tuition as stated below.

For an examination or any single series of examinations taken at any other time than at the conclusion of a course actually attended a fee of $5 is charged.

The registration or matriculation fee must be paid at the time of entrance. No official record of a student's attendance can be noted until this fee has been paid.

The Dean may withdraw the privileges of any student who is delinquent in the payment of fees.

Checks should be made payable to the order of Barnard College, and addressed to the office of the Bursar.

Withdrawal. — Students are requested in cases of withdrawal from the College during the academic year to notify the Registrar in writing without delay; a minor must submit the written assent of her parent or guardian. No application for a return of fees can be considered unless the student has applied in writing at the time of withdrawal, and been granted an honorable discharge.

FEES

For matriculation or registration	$5.00
Required of all students before entrance. This fee is payable but once and is never refunded.	
For late registration (see p. 53)	5.00
For tuition, payable at the beginning of each session	100.00
Students who entered Barnard College before September, 1915, will be charged $75.00 each session.	
Students not candidates for a degree are charged at the rate of $10.00 a session for each point of instruction, with a maximum fee of $200.00 for the year. If the entire fee is less than $100.00 the whole must be paid upon registration.	
For examination, payable in each case before the examination is held:	
For entrance (see p. 20)	5.00
For any examination or single series of examinations taken at any other time than at the conclusion of a course actually attended, whether taken prior or subsequent to admission	5.00
For the degree	15.00
For laboratory work	
Botany (Courses **51, 52, 53, 54, 55, 56**), each course	1.25
Botany (Courses **153, 154, 156, 158, 159, 160, 161, 162**), each course	2.50
Chemistry (Courses **5, 6**), each course	2.00
Chemistry (Courses **43, 44**), each course	7.50
Chemistry (Courses **63, 64**), each course	6.00
Chemistry (Courses **42a, 105, 106, 145, 146**), each course	10.00
Mineralogy (Courses **17, 18**), each course	1.50
Zoölogy (Courses **1, 2, 3, 4**), each course	2.50

Should Course **3** be taken in connection with Course **1**, or Course **4** be taken in connection with Course **2** or Course **102**, the one fee covers both courses.

Zoölogy (Courses **53, 54, 101, 102, 151, 152**), each course . . . 2.50

For the use of the gymnasium 7.00

Required of every student.

FEES OF STATE SCHOLARS

Holders of State Scholarships should file their University Scholarship Certificates at the office of the Bursar *on the day of registration* and should be prepared to pay, at the same time, the following fees:

Matriculation fee	$5.00
Tuition fee	50.00
Gymnasium fee	7.00
	$62.00

and Laboratory fee according to work taken.

February payment, tuition fee $50.00

The certificates will be held in the Bursar's office until the state funds have been received; they will then be returned to the candidates. A bulletin-board notice will give information as to when they can be claimed.

DORMITORY FEES

Deposit $15.00

Payable in advance to secure assignment of room, and held until final closing of accounts for the year as security for damage to rooms, fittings, or furniture, or for any other indebtedness.

Electricity, charged for by meter.

Board 225.00

Payable in two equal instalments in advance, on or before taking possession of room, and on February 1.

Rent

Payable in two equal instalments in advance, on or before taking possession of room, and on February 1.

Single rooms 140–270.00

Some scholarship grants of $50 each are available for students who cannot meet the entire cost of residence.

Two-room suites (for one person) 350–385.00

Three-room suites (for two persons) 440–470.00

Private bath (for one, two, or three persons) 50.00

ESTIMATED NECESSARY EXPENSES

Board and single room, $365 to $495 for the academic year.

Some scholarship grants of $50 each are available for students who cannot meet the entire cost of residence.

Electricity, $5.

Matriculation fee, $5.

Annual tuition fee, $200.

Gymnasium fee, $7.

Text-books, from $10 to $20 each year.

Final examination for the degree, $15.

THE PROGRAM OF STUDIES

Upon satisfactory completion of a curriculum arranged on one of the plans to be described below (pp. 58–60) the student is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts or Bachelor of Science.

The principles of the program of studies are as follows:

1. The requirement for graduation is 124 points. The term point usually signifies the satisfactory completion of work requiring attendance at class one hour or in a laboratory two hours a week during a winter or a spring session.

2. Studies are either prescribed, *i.e.*, obligatory upon all candidates for a degree, or elective, *i.e.*, to be taken, with certain restrictions, at the pleasure of the student.

3. Prescribed studies, with the exception of Economics A, must be taken as far as practicable during the first two years of residence; and subjects taken in college which are continuations of subjects offered at entrance must be taken as far as possible in the first year.

4. No courses other than those specified in the Announcement may be taken except by students specially qualified to pursue them with advantage and with the consent of the Provost, on the recommendation of the Committee on Instruction.

5. No combination of courses amounting to less than 12 or more than 16 points may be made in any winter or in any spring session without the consent of the Provost on the recommendation of the Committee on Instruction.

6. No credit will be given for a one-hour course, unless it is taken in connection with and as a supplement to a cognate course.

7. No more than four hours of class work, or its equivalent in laboratory work, or seven hours of class work and laboratory work combined, may be taken on the same day.

8. In the A.B. course, a major subject of at least 18 points of not less than grade C, exclusive of prescribed work, must be taken in some one

subject under some one department before graduation. Students entering by transfer from other colleges are required to take at least 4 points of this major at Barnard. In the B.S. course a major subject of at least 28 points of not less than grade C is prescribed.

9. Admission to courses depends upon completion of the prerequisites as stated for each course. In all cases the requirements as to prerequisites for any course must be completed before the beginning of the winter or of the spring session in which the course is given. Where no prerequisite is stated and where no limitation is noted the course may be taken and counted for a degree by any student of the college.

10. To be recommended for a degree, a student must have made at least 84 points in actual college residence, and at least 24 of these while registered in Barnard College, of which 24 points at least half should be taken during the senior year.

11. All requirements for a degree must be fulfilled by the candidate within six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from matriculation as a junior; and within one and a half years from similar matriculation as a senior. If the candidate fails to satisfy the requirements within the time here specified, she is to lose credit for all the points gained by her toward the degree, unless, in individual cases, the Faculty shall otherwise direct.

12. No change of program, either by adding or by dropping a course, may be made by a student without the written consent of the Provost, on recommendation of the Committee on Instruction. Except on the initiative of the departments or of the Committee on Instruction, such change will be allowed only in the third week after the opening of the winter session and in the two weeks preceding the opening of the spring session. Applications by students for change of program for the winter session must be filed during the second week of that session; applications for change of program for the spring session must be filed before that session begins. Until action is taken upon the application, the student must attend the courses originally named in her program.

13. The election of specific courses in Extension Teaching or in a summer session at Columbia University or elsewhere must be approved by the Committee on Instruction of Barnard College. No student who has received a grade of D or F during the preceding academic year will be allowed to count more than 6 points of work taken in a summer session, unless the Committee on Instruction shall otherwise decide. In no case may more than three courses or 8 points of work be counted in a summer session in any one year. No summer session course that is passed with a grade below C will be credited toward a Barnard degree.

14. Courses in Extension Teaching approved by the Committee on Instruction may be credited toward the degrees of A.B. and B.S. for matriculated students registered in Extension Teaching who maintain a grade of at least C.

Students of Barnard will be allowed to attend extension courses which are approved by the Committee on Instruction, and to count them toward the degrees of A.B. and B.S. under the following regulations:

(*a*) The election of extension courses must be approved by the Committee on Instruction and by the Director of Extension Teaching.

(*b*) Students will not be allowed to exceed a total of 16 points, including the points of extension courses, at one time, save with the special permission of the Committee on Instruction, for reasons of weight.

(*c*) Students desiring to count these courses toward the degrees of A.B. and B.S. must obtain in them a grade of at least C.

Before final choice of elective studies, all students should consult their advisers (see p. 63), the Committee on Instruction, and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan. Conflicts between courses falling at the same hours are to be avoided by careful study of the Scheme of Attendance at the end of this volume, which has been drawn up with a view to making possible for every one the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the major subject of 18 points.

I. THE PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

Unless their equivalents have been offered for admission the following courses are prescribed:

English A and B	12 points
History A	6 "
Latin A or Greek 5–6	6 "
Mathematics A	6 "
Modern Languages (see below).	
Philosophy A[1]	6 "
Physical Education A and B	4 "
Economics A	6 "
Chemistry 5–6 or Physics 1–2	6 "
Botany, Chemistry, Geology, Physics, Experimental Psychology, Zoölogy: one full course in addition to Chemistry 5–6 or Physics 1–2 or any course in science that may have been offered for admission	6 "
Major subject of	18 "
Free electives to complete the total of	124 "

[1] Or, on recommendation of the department, Philosophy 61–62.

Requirements in Modern Languages Applying to Programs I and II

No modern language course in college is prescribed for the degrees of Bachelor of Arts and Bachelor of Science. Before being registered as seniors, all students, except those who have offered the complete requirement in Elementary Greek at entrance or who have taken Greek 1–2 and 3 in college, must satisfy the departments of Romance Languages and Germanic Languages that they have a working knowledge of French and German. In special cases, with the consent of the Committee on Instruction, Spanish or Italian may be substituted for French.

As a rule the departmental test will take the form of an oral examination in translation at sight. It may be taken during the month of March or the month of November before May 1 of the junior year.

A student who offers the complete requirement in Elementary Greek at entrance or who takes Greek 1–2 and 3 in college will be obliged to stand the test in only one of the modern languages.

Students whose preparation in a modern language is inadequate for this test should elect, under the advice of the department, special courses that are designed to prepare for this examination.

II. THE PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

Unless their equivalents have been offered for admission the following courses are prescribed:

English A and B	12 points
History A	6 "
Mathematics A	6 "
Modern Languages (see above).	
Philosophy A [1]	6 "
Physical Education A and B	4 "
Grouped work in science amounting to at least	70 "
which must include:	
A major subject of at least 28 points in one of the following natural sciences: Astronomy, Botany, Chemistry, Geography, Geology, Mineralogy, Physics, Experimental Psychology, and Zoölogy, or in Mathematics; and	
Two minors of at least 12 points each, one in a subject allied to the major and one in a diverse subject, both to be chosen from the foregoing list with the addition of Anthropology, which should, as a rule, be taken only in connection with Botany or Zoölogy as a major.	
Free electives to complete the total of	124 points

[1] Or, on recommendation of the department, Philosophy 61–62.

III. GENERAL TWO-YEARS' COURSE, NOT LEADING TO A BARNARD DEGREE

This general course is designed to furnish the collegiate foundation for professional work in other schools of the University. It comprises from 62 to 74 points of work. The courses prescribed depend upon whether the candidate intends to transfer to the School of Architecture, the School of Practical Arts, the School of Business, or the School of Journalism.

Candidates who intend to transfer to the School of Architecture for courses leading to the degree of Bachelor of Architecture (see Architecture, p. 61 below), or to the School of Practical Arts in Teachers College for work leading to the degree of Bachelor of Science in Practical Arts should in general take the following courses unless their equivalents have been offered for admission:

English A or a more advanced course in rhetoric	6 points
English Literature: two half-year courses	6 "
French, German, Italian, Spanish: two half-year courses in each of two modern languages, preferably French and German	12 "
History A or a more advanced course in history	6 "
Physical Education A and B	4 "
Botany, Chemistry, Geology, Physics, or Zoölogy: two half-year courses in each of two natural sciences that have not been offered for entrance, at least	12 "
Elective courses to complete the total of	64 "

Candidates who intend to transfer to the School of Journalism (see Journalism, page 61 below) are required to take 74 points of work (including 2 points in Physical Education) in Barnard College as indicated in the following schedule:

First Year

English A1–A2	6 points
[1] A modern language course	6 "
Introductory Science 1–2 (with outside reading)	6 "
History A1–A2	6 "
Philosophy A1–A2, or 61–62, or a science or a language [1]	6 "
Physical Education A1–A2	2 "
Politics 1–2	6 "
	38 points

Second Year

Economics A1–A2	6 points
English B5–B6	6 "
English B9–B10	6 "
English 19–20, or a continuation course in language	4 "
History 9–10	4 "
History 15–16	4 "
History 19–20	6 "
	36 points

[1] Candidates who enter under Foreign Language Requirement *c* (see page 18), must continue both French and German; those who enter under *d* must continue German, and those who enter under *e* must continue French, in the first year.

IV. COURSES IN THE GRADUATE FACULTIES AND PROFESSIONAL SCHOOLS OPEN TO BARNARD STUDENTS

Political Science, Philosophy, and Pure Science

Certain graduate courses in Columbia University under the Faculties of Political Science, Philosophy, and Pure Science are open, with the consent of the department concerned and the Committee on Instruction, to specially qualified seniors. They may be counted towards the Bachelor's degree, or in case the student has more points than the number required for that degree they may, under certain circumstances, be credited towards the Master's degree.[1] Some of these courses are mentioned at the end of the departmental statements given below. For full information students are referred to the appropriate University announcement.

Architecture

Certain courses in the School of Architecture are open to regular students in Barnard College, and may be credited towards the Barnard degree. They are described below in the departmental statement on page 90.

After two years of collegiate work in Barnard, amounting to at least 72 points' credit and including French 1, 2 or its equivalent, a student may transfer without examination to the School of Architecture in Columbia University and become a candidate for the degree of Bachelor of Architecture. The course in the School of Architecture leading to this degree generally requires four years for its completion.

For full information, students are referred to the Announcement of the School of Architecture.

Business

After two years of collegiate work in Barnard, amounting to at least 62 points' credit, a student may transfer without examination to the School of Business in Columbia University and become a candidate for a degree which will probably be that of Bachelor of Science in Business. The course in the School of Business leading to this degree generally requires for its completion two years in addition to the two years of collegiate work in Barnard College.

For full information students are referred to the appropriate University announcement.

Journalism

After two years of collegiate work in Barnard, amounting to at least 74 points' credit and including certain prescribed courses (see page 60), a student may transfer without examination to the School of Journalism of Columbia University and become a candidate for the degree of Bachelor

[1] See p. 15 of the Announcement of the Faculties of Political Science, Philosophy, and Pure Science.

of Literature. The course in the School of Journalism leading to this degree generally requires for its completion two years in addition to the two years of collegiate work in Barnard College.

For full information, students are referred to the Announcement of the School of Journalism.

Music

Courses in the history and theory of music and in composition, given at Columbia University, are open to regular students in Barnard College and may be credited towards the Barnard degree. They are described below in the departmental statement on page 98.

For full information students are referred to the Announcement of the Department of Music.

Students wishing to combine collegiate work with vocal or instrumental training may, while pursuing courses at Barnard, enroll as regular students at the Institute of Musical Art, Claremont Avenue and 122d Street. They must obtain the consent of the Dean of Barnard College and the Director of the Institute. Work at the Institute will not be counted towards the Barnard degree and must be paid for separately.

Education

Certain courses in the history and theory of education given by Teachers College are open to regular students in Barnard College and may be credited towards the Barnard degree. They are described in the departmental statement on page 86 below.

While the courses in the School of Education are primarily intended for graduate students, those seniors who are specially qualified may, with the permission of the instructors giving the courses and of the Dean of Barnard College, elect these courses with a view to securing the Teachers College diploma at the same time that the Barnard degree is awarded or with the addition of a summer session or semester. Such students must satisfy the diploma requirements as stated in the Announcement of the School of Education. In no case is the diploma granted upon the completion of less than Education A and B and two full courses in Teachers College. Students who are planning to teach in New York State may so arrange this work as to qualify them for the College Graduate Professional Provisional Certificate granted by the Regents of New York.

For full announcement of courses and diploma requirements students should consult the Announcement of the School of Education.

Religion

Certain courses in the Union Theological Seminary are open, with the consent of the Committee on Instruction and the President of the Seminary, to specially qualified seniors, and may be counted towards the Barnard degree.

Philanthropy

Exceptional advantages are available for students desiring to specialize in economics, sociology, and social economy, in preparation for social and philanthropic work. Besides the courses given at Barnard in economics and social science, certain graduate courses in this department of Columbia University are open, with the consent of the department and of the Committee on Instruction, to specially qualified seniors. Because of the affiliation between the College and the New York School of Philanthropy, certain courses in the latter institution may also be pursued, with the consent of the Department of Economics and of the Committee on Instruction, and the approval of the Director of the School, by specially qualified seniors, and counted towards the Barnard degree. No extra tuition fee is required. The purpose of this School is to fit men and women for social service in either professional or volunteer work. It offers valuable courses in the housing problem, child helping agencies, the treatment of the criminal, family rehabilitation, the social settlement movement, and kindred subjects. By taking some of this work in her senior year a Barnard student may anticipate part of the requirements for the diploma of the School of Philanthropy.

ADVICE TO STUDENTS

The Freshman Year. — At the opening of the year the incoming students shall register as is customary, and shall make out their elective blanks subject to the approval of the Committee on Instruction. During the months of November and December each member of the freshman class shall confer with the Dean, or with a Faculty adviser appointed by the Dean, regarding her studies and other matters that may be of interest to her. During the month of April, after the appearance of the catalogue, each freshman shall consult with any instructor she may choose regarding her election of courses for the sophomore year. No elective blank shall be considered by the Committee on Instruction that does not bear the signature of the adviser.

The Sophomore Year. — Before November 1 all deficient students shall consult with the Dean. In April students shall, as during the freshman year, fill out elective blanks subject to the approval of the adviser. The adviser may be any instructor in Barnard College whose work the student has taken in the freshman or the sophomore year, but should preferably be an instructor in the department in which the student means to elect her major subject, which should be chosen not later than the end of the sophomore year. Before May 12 elective blanks bearing the signatures of the adviser and the student shall, as usual, be submitted to the Committee on Instruction for approval.

The Junior Year. — In April students shall make out elective blanks as in the preceding year. The adviser should be from the department in

which the student has elected her major subject and should, as a rule, be the same as the adviser chosen at the end of the sophomore year. Elective blanks shall be filed in accordance with the usual regulations and submitted to the Committee on Instruction for approval. Whenever necessary, the Dean will consult with particular students.

The Senior Year. — During the senior year students will be advised as necessary in individual cases. They should freely consult the Dean and their instructors, who will gladly give advice either as to the college courses they are taking or concerning possibilities in various lines of work after graduation.

GENERAL REGULATIONS REGARDING EXAMINATIONS IN COURSE, CREDIT, AND ADVANCEMENT

Stated Examinations. — Two series of examinations are held every year, one in January and the other in May. These are the only stated examinations. In 1917, the mid-year examinations begin on Wednesday, January 24, the final examinations on Monday, May 21.

Absences. — All students are expected to attend regularly and promptly all the exercises in the courses for which they are registered. Any considerable amount of absence or tardiness will result in the lowering of a student's mark or the loss of one or more points of credit for the course. At the end of each term each student shall file in the Registrar's office, on blanks provided for that purpose, a list of her absences and tardinesses with the reasons therefor. After considering these excuses and the reports from the instructors, the Committee on Instruction will adjust marks and credits.

Special Examinations. — Special examinations are held as follows: in the first week of March of each year, and within the two weeks preceding the opening of the College in the fall.

Such examinations are open, by permission of the Provost, on recommendation of the Committee on Instruction, to:

(*a*) Students who have received F (or D in excess of 6 points), provided that, in the opinion of the instructor and that of the Committee on Instruction, the term work has been good enough to make repetition in class or laboratory unnecessary. Ordinarily F (or D in excess of 6 points) in prescribed work involves repetition of the course;

(*b*) Students who have been absent, for imperative reasons, from the stated examination in any course provided their term work has been satisfactory;

(*c*) In rare instances, for reasons of weight, to other students.

In all cases application for permission to take a special examination must be made in writing.

For any such series of examinations, or any such single examination taken at any time other than the stated examination period immediately

following the conclusion of the course or courses involved, a fee of $5 must be paid to the Bursar before the student is admitted to the examination.

Grades and Credit. — The student's performance in a course is rated according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure.

No student may count for promotion from any class to the next higher class more than six (6) points of D work or may be credited with more than six (6) points of D work, during her senior year. In case more than four years is required for her degree, not more than twenty-four (24) points of D work altogether may count for the degree. Of several courses in which a student is marked D she may choose the ones to be counted.

Additional Credit for High Standing. — At the end of the winter and of the spring session, when all the reports are filed in the Registrar's office, additional credit for high standing is given as follows:

The mark A in courses aggregating six points of work (no course to be counted twice) entitles the student to one point of extra credit, provided she has satisfactorily completed all the work of the session, and has not fallen below the mark B in any course.

Classification of Students. — Matriculated students whose record as to entrance conditions and the completion of prescribed courses is satisfactory to the Committee on Instruction, are classified as follows:

Freshmen, those who have completed less than 26 points of college work;

Sophomores, those who have completed 26 points;

Juniors, those who have completed 58 points;

Seniors, those who have completed 90 points.

In all cases the requirements for promotion must be met in full before the beginning of the winter session.

A student who fails to meet the requirements for advancement from one class to another may, with the consent of the Provost, on the recommendation of the Committee on Instruction, remain in College and repeat the course or courses in which her deficiency exists, or, in the case of elective courses, other courses equivalent thereto in time. She may not, however, register as a special student.

Should a student fail of advancement in two successive years, she shall be permanently dismissed from the College, unless for reasons of weight, the Provost, on the recommendation of the Committee on Instruction, shall otherwise determine.

SCHOLARSHIPS

Number and Value. — There are, altogether, seventy-two scholarships and five special funds for the benefit of students who need financial aid. The annual income of each of these scholarships, stated in the list on pages 66–70, is applicable to the fees of the year. Under certain circumstances, holders of scholarships which do not cover the entire tuition fee may receive supplementary grants from the special funds.

Classification. — The scholarships are of two sorts, competitive and non-competitive. Some of the competitive scholarships are awarded to entering freshmen for excellence in entrance examinations. Others are awarded to students already in Barnard for excellence in their college work. The non-competitive scholarships are awarded to students needing financial aid, and, as a rule (except in the case of the Pulitzer Supplementary Scholarships) only to those who have passed at least one year in college. They are held, unless otherwise stated, for one year only.

Conditions. — Two scholarships may not be held by the same person, unless one is a Supplementary Scholarship. Should two scholarships be assigned to the same student in one year, she must at once choose which she will retain. If a student fail to maintain a grade of at least C in all courses which she pursues, or if for any other reason she show herself an unsatisfactory candidate, she shall forfeit her scholarship and, in the case of non-competitive scholarships, shall be ineligible for re-election the following year. No student with entrance conditions unremoved, or with a grade below C in the year previous to that in which she is asking for help, shall be eligible for a scholarship. For competitive entrance scholarships a complete set of entrance examinations, *i.e.*, a total of fifteen (15) units, is required. These examinations should, as a rule, be taken in June, since the scholarships are generally awarded before the beginning of the winter session; they may be taken, if the candidate so desire, in two successive Junes. Scholarships vacant in February may, however, be awarded to candidates entering at that time on the January examinations.

Application. — Before the first of April of each year all applications for non-competitive scholarships, accompanied with full credentials, must be filed at the Dean's office upon special blanks to be obtained there. Candidates for the competitive scholarships to be awarded on the basis of the June examinations should, in their application to the Secretary of the College Entrance Examination Board (see p. 19), mention the Barnard College scholarships for which they are competing. For the Pulitzer Scholarships, the Martha T. Fiske Scholarship, and the Jessie Kaufmann Scholarship, application must be made to the Secretary of Barnard College before the first of May. In order to qualify for the receipt of her stipend, the holder of a scholarship should report at the office of the Registrar not later than the first day of the academic year.

COMPETITIVE SCHOLARSHIPS

These, subject to the foregoing general regulations for scholarships, are as follows:

1. *Open to entering freshmen:*

Brooklyn Scholarships ($150 each) 12

Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Low of a memorial building for the University Library. They are open to students who have received their training in either

the public or the private schools of Brooklyn, N. Y., and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June without conditions, the best complete entrance examinations in all subjects. They may be held for the entire college course, but a holder, while retaining the title "Brooklyn Scholar," may transfer the income to any properly qualified candidate from Brooklyn without having her action made a matter of public record.

Lucille Pulitzer Scholarships (for annual income, see below)..... 9

Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer.

Five Residence Scholarships, four of which carry an income of $600 a year apiece and one an income of $300, are open to women who are not residents of New York City or its vicinity. They are awarded on the merits of entrance examinations taken under the College Entrance Examination Board and on the candidate's general character and power of leadership. The examinations may be taken, if the candidate so desire, in two successive Junes. The scholarships may be held throughout the college course, provided the recipients continue to maintain a high rank in their college work. The holders are required to reside in Brooks Hall, the Barnard hall of residence. One $600 and one $300 scholarship will be awarded in 1916.

Three New York City Scholarships are awarded to students entering the College from the city of New York who are found to have passed excellent entrance examinations and to be worthy of financial aid. They may be held for the first three years of the college course only.

The first (*a*) founded in 1899, carries an annual income of $400 and will be awarded in 1918, 1921, and corresponding years.

The second and third, given in 1903, carry annual incomes of $325 each; (*b*) will be awarded in 1916 and 1919, (*c*) in 1917 and 1920, and corresponding years.

One Competitive Freshman Scholarship ($200) is awarded annually on the merits of the entrance examinations and on the candidate's general character. It may be held for one year only.

Jessie Kaufmann Scholarship ($170)..... 1

Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

Martha T. Fiske Scholarship ($200)..... 1

Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserv-

ing candidate not a resident of New York City or its suburbs, and may be held throughout the college course, provided the recipient continues to maintain a satisfactory standing.

2. *Open to students who have passed at least one year in college:*

Eleonora Kinnicutt Scholarship ($200) 1

Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1918 and 1921.

Emma A. Tillotson Scholarship ($200) 1

Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1916 and 1919.

William Moir Scholarships ($200 each) 2

Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

The first (*a*) is awarded at the end of the freshman year to a student of exceptionally high standing who is in need of assistance, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1917 and 1920.

The second (*b*) may be awarded to a student of any class who has shown exceptional scholarly ability and who is in need of assistance.

NON-COMPETITIVE SCHOLARSHIPS

These, subject to the general regulations for scholarships, are as follows:

Ella Weed Scholarship ($150) 1

Founded in 1895 by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

Veltin School Scholarship ($150) 1

Founded in 1905 by the alumnæ of Mlle. Veltin's School.

Jennie B. Clarkson Scholarship ($150) 1

Founded in 1898 by the late Mrs. W. R. Clarkson.

Emily James Smith Scholarship ($120) 1

Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College. It is awarded in conference with the founder.

Anna E. Barnard Scholarship ($150) 1

Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded in conference with the founder.

Brearley School Scholarship ($120) 1

Founded in 1899 by pupils and former pupils of the Brearley School.

Eliza Taylor Chisholm Memorial Scholarship ($120) 1

Founded in 1901 by the Alumnæ Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

Graham School Scholarship ($120) 1

Founded in 1907 by the Graham Alumnæ Association.

Mrs. Donald McLean Scholarship ($150) 1

Founded in 1906 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

Emma Hertzog Scholarship ($150) 1

Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded in conference with the Faculty of the Yonkers High School, to a graduate of that school who is entering Barnard College.

Mrs. Henry Clarke Coe Scholarship ($160) 1

Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

Mary Barstow Pope Scholarship ($210) 1

Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate of Barnard College for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

Charles E. Bogert Memorial Scholarship ($200), and
Anna Shippen Young Bogert Memorial Scholarship ($250) 2

Founded in 1913 by the late Mrs. Annie P. Burgess. They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

Martha Ornstein Brenner Scholarship ($180) 1

Founded in 1915 by her friends in memory of Martha Ornstein Brenner, 1899.

Lucille Pulitzer Supplementary Scholarships ($50 each) 30

Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy stu-

dents, and may be used to supplement larger scholarships or themselves combined into scholarships of $100 or more. The money is applicable to tuition fees, residence fees, or, in special cases, general outside expenses.

SPECIAL FUNDS FOR THE AID OF NEEDY AND DESERVING STUDENTS

Arthur Brooks Fund.

A fund of $5000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

Fiske Scholarship Fund.

A fund of $5000 given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.

George W. Smith Scholarship Fund.

A fund of $5000 given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

Charles Stewart Smith Scholarship Fund.

Established in 1911 in memory of the late Charles Stewart Smith, who was a Trustee of Barnard College. It provides an annual income of $250, which is used to assist needy and deserving students.

Scholarship Fund.

A fund of $9680, established by general subscription through the Scholarship Committee of the Board of Trustees.

STUDENTS' AID FUND

A Students' Aid Fund is maintained by the Associate Alumnæ. From this fund loans are made at a low rate of interest to students in need of financial assistance. The loans and interest are to be repaid within five years after graduation. Under the rules of the Students' Aid Committee, no money may be granted to a freshman in the first winter or spring session; it may be granted in the second only in exceptional cases. The chairman of the Committee, to whom inquiries should be addressed, is Miss Mabel Parsons, Hotel San Remo, New York City.

GRADUATE FELLOWSHIP

Established by an anonymous donor in 1912. It is of an annual value of $600. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This Fellowship is awarded each year as an academic honor to that member of the

graduating class of Barnard College, who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. This Fellowship is not to be applied for, but is awarded each year as soon as possible after the mid-year examinations. Students who have graduated in February are eligible, as well as those who are to graduate in June.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

Herrman Botanical Prize. — A prize of $50, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

Kohn Mathematical Prize. — A prize of $50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

The Jenny A. Gerard Medal. — The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College who is most proficient in American Colonial History.

Speranza Prize in Italian. — A prize of $50, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard from 1890 until 1911, is awarded annually to a student in Barnard College for excellence in Italian.

Von Wahl Prize. — A prize consisting of the income of a fund of $1000, founded in 1915 in memory of Constance von Wahl, 1912, President of the Undergraduate Association, is awarded annually to that member of the graduating class who, in the opinion of the Faculty and of her fellow-students, has rendered the highest type of service to the College.

The following prizes of Columbia University are by their terms open to students of Barnard College.

The Bunner Medal. — The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1916, is "American Comedy from 1800 to 1865"; in 1917, "American Patriotic Poetry before 1850."

Earle Prize in Classics. — A prize of $50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889

to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is open for annual competition to all candidates for the degree of Bachelor of Arts. It is awarded partly on the basis of the regular work of the year in Greek and in Latin, partly on the basis of a special examination. The special examination covers specified portions of Greek and Latin literature, sight reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1917 are Plato, *Protagoras*, Vergil, *Eclogues*.

For the award in 1917, the examination will be held in January. Students are urged to do much of their work for the examination during the preceding summer vacation.

The Caroline Phelps Stokes Prize. — The Caroline Phelps Stokes Prize of $40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College or Barnard College or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. The subject for the essay to be handed in May 1, 1916, is the abstract principle of the rights of man as applied to the position of woman, (1) economically — economic independence, equal pay for equal work; (2) politically — the question of suffrage; (3) in the family — the question of marriage and divorce. The subject for 1917 is "The Bearing of the Doctrine of the Rights of Man on the Case of Belgium in the Present War." Does the doctrine hold good? Or must it be abandoned, or modified in obedience to some other and more fundamental principle?

HONORS

Departmental Honors. — Departmental honors are awarded for high excellence in the work of any department, under the following regulations:

No honors shall be awarded to freshmen or special students or to any student whose work falls below C in any course taken by her in the year of her candidacy. A candidate's standing in a course that is dropped may be taken into consideration by the Committee in the award of honors.

No honors shall be awarded to students on elementary courses only and in no case may more than one full-year elementary course be counted in the total necessary for honors.

First year honors in any department shall be awarded at the end of any year to any student, of at least sophomore standing, who has taken at least 12 points of work in that department, of which 12 points at least 6 points shall be of grade A and none below grade B, and who has done extra work required by the department, and who is certified by the department as worthy of honors.

Second year honors in any department shall be awarded to a student of at least junior standing, who has taken at least 18 points of work in that department, of which 18 points at least 12 points shall be of grade A and

none below grade B, who has done extra work required by the department, and is certified by the department as worthy of honors.

Third year honors in any department shall be awarded at graduation to any student who has taken at least 24 points of work in that department, of which 24 points at least 18 points shall be of grade A and none below grade B, who has done extra work required by the department, and is certified by the department as worthy of honors.

With the consent of the departments concerned and of the Committee on Honors, part of the 12, 18, or 24 points of work required for departmental honors may be taken in an allied department.

Final honors in any department shall be awarded to any student who has obtained honors in that department for three successive years.

Candidates for honors shall confer with the department concerned and shall announce their candidacy in writing to the Registrar not later than December 10 of the academic year in which they wish to take honors.

The amount of extra work required for honors shall correspond approximately to that accepted for one point of regular college credit.

Degrees with Honor. — For general excellence in the work of the college course honors may be awarded at graduation, under the following regulations:

The Faculty of Barnard College, on the recommendation of the Committee on Honors, may recommend that the degree CUM LAUDE be awarded to any student who has obtained grade A in at least 62 points of the work of the college course, and who has not fallen below grade B in more than 31 points of the work of the college course, and who has twice received departmental honors; or to any student who, without receiving departmental honors, has obtained grade A in at least 74 points of the work of the college course, and who has received no grade below C, and who has not received C in more than 12 points of work.

The Faculty of Barnard College, on the recommendation of the Committee on Honors, may recommend that the degree MAGNA CUM LAUDE be awarded to any student who has obtained grade A in at least 90 points of the work of the college course, and who has never fallen below grade C, and who has received final honors in some department, or first and second year honors in each of two departments; or to any student who, without receiving departmental honors, has obtained grade A in at least 102 points of the work of the college course and who has received no grade lower than B.

Points of extra credit gained by high standing are not to be counted in these totals.

RESIDENCE HALL

Brooks Hall, the residence hall for Barnard College students, will open on Monday, September 25, 1916, and will close on Saturday, June 9, 1917. Candidates for admission or students who wish to secure accommodations in Brooks Hall during the week of the September entrance or deficiency

examinations should make arrangements directly with the Secretary of the Hall, not later than September 1.

Full information in regard to the situation and cost of rooms, the advance deposit, and the charge for electric light is published in a separate pamphlet, to be had on application to the Secretary of Brooks Hall. All correspondence regarding accommodations in Brooks Hall should be addressed to the Secretary of the Hall, 607 West 116th Street, New York, N. Y. For the dormitory fees see p. 55.

The post-office address for residents is Brooks Hall, 607 West 116th Street, New York, N. Y.

For regulations in regard to the residence of students who do not live in Brooks Hall, see page 15.

HEALTH AND PHYSICAL TRAINING

The University Medical Officer, Dr. William H. McCastline, supervises the sanitation of the College and gives personal advice to the students concerning their health. A trained nurse, who lives in Brooks Hall, works under Dr. McCastline's direction in promoting the health of both resident and non-resident students.

The new Students' Building, now in the course of erection, will contain a gymnasium, swimming-pool, and exercise rooms. It is hoped that this may be ready for use in the fall of 1917. In the meantime, students of Barnard College have the use, at certain hours, of the Thompson Gymnasium of Teachers College. They have also, on Milbank Quadrangle, a practice field for hockey and basketball, and tennis courts. A physical examination is required of each student upon entrance and at the end of the work in physical education prescribed for college students. On the basis of this examination advice is given as to the kind and amount of exercise best adapted to her needs. Each student must also consult with the instructor at least once a month during her freshman and sophomore years. As far as possible the work in physical education is conducted in the open air.

THE UNIVERSITY LIBRARY

The University Library is open each week-day (except Labor Day, Thanksgiving, Christmas, New Year's Day, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October–June; and until 10 P.M., July–September. All officers, students, and graduates of all departments of the University have free access to the Library and may draw books for home use.

The Library contains about 570,000 volumes, exclusive of unbound pamphlets and duplicates, and some 75,000 German dissertations. About 10,000 carefully selected reference books and many of the most important works on all subjects, in standard editions, representing the leading authors in all literatures, are placed in the general reading-room directly accessible to all readers.

For the convenience of the undergraduates of Barnard College there is also maintained in the Ella Weed Memorial Reading-room at Barnard College a carefully selected reference library of about 11000 volumes.

An accurate catalogue of the entire Library by authors and subjects is on cards accessible to readers.

PUBLIC LECTURES

Barnard College students may avail themselves of the opportunities offered by the numerous public lectures which are given each year at Columbia University, ordinarily by persons of distinction who are not members of the teaching staff. Students of the University may also frequently enjoy important dramatic and musical performances at reduced cost.

UNIVERSITY PRESS BOOKSTORE

A University bookstore is maintained under the auspices of the Columbia University Press, where officers and students may purchase books and stationery at stated discounts from list prices.

CHAPEL SERVICE

Chapel service is held on Monday and Thursday of each week at 12 o'clock in the college assembly room. The service lasts about twenty minutes and is conducted by the Dean, with an address by some clergyman or lay speaker, or by an officer of the University. Attendance is voluntary.

In St. Paul's Chapel, the chapel of Columbia University, service is held every week-day except Saturday and Wednesday at 12 o'clock and on Sunday afternoon at 4 o'clock. At these services also attendance is voluntary.

Special University services are held in St. Paul's Chapel on the Wednesday preceding the Thanksgiving recess and on the first Wednesday of the second half-year.

STUDENT ORGANIZATIONS

Under the system of self-government in use in the College, the various student organizations are supervised by the Student Council, subject to the general approval of the Faculty. The Council controls the schedules of meetings and entertainments and administers rules of eligibility for office-holding and participation in college plays.

STATISTICS

	1889 to 1890	1894 to 1895	1899 to 1900	1904 to 1905	1905 to 1906	1906 to 1907	1907 to 1908	1908 to 1909	1909 to 1910	1910 to 1911	1911 to 1912	1912 to 1913	1913 to 1914	1914 to 1915	1915 to 1916
UNDERGRADUATES, REGULAR:															
Seniors	..	9	40	83	81	63	59	68	62	53	72	86	*97	*123	†93
Juniors	..	18	40	71	78	110	116	108	122	144	154	144	147	110	160
Sophomores	..	18	37	75	97	88	95	114	109	115	132	155	132	191	169
Freshmen (regular)	4	26	54	110	111	130	135	161	188	185	226	184	252	240	211
" (partly regular)	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	14	71	171	339	367	391	405	451	481	497	584	569	628	664	633
SPECIAL STUDENTS:															
Matriculated	..	..	21	27	18	22	35	25	24	26	20	16	22	32	28
Non-matriculated	..	..	..	..	5	6	13	22	30	24	36	33	34	32	33
Departmental (1889–1896)	22	29	..	..	..	..	..	..	..	..	..	..	..	..	..
Music students (1896–1904, 1914–1915)	..	..	41	..	..	..	..	..	..	..	..	..	..	5	..
	22	29	62	27	23	28	48	47	54	50	56	49	56	69	61
GRADUATE STUDENTS (1890–1900)	..	19	82	..	..	..	..	..	..	..	..	..	..	..	..
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD	36	119	315	366	390	419	453	498	535	547	640	618	684	733	694
STUDENTS FROM COLUMBIA UNIVERSITY	..	..	..	62	57	40	38	36	59	62	59	45	41	28	18
STUDENTS FROM TEACHERS COLLEGE	..	..	18	77	95	165	167	182	200	201	146	136	*125	*108	46
STUDENTS FROM SCHOOL OF PHILANTHROPY	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY	..	..	18	139	152	205	205	218	259	263	205	183	167	136	64
TOTAL REGISTRATION	36	119	333	505	542	624	658	716	794	810	845	801	851	869	758
DEGREES CONFERRED:															
A.B.	..	8	39	83	75	76	97	98	88	103	114	136	113	141	..
B.S.	..	..	..	..	..	..	..	..	2	..	4	3	7	8	..
A.M. (1894–1900)	..	1	18	..	..	..	..	..	..	..	..	..	..	..	..
Ph.D. (1895–1900)	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..

TOTAL BACHELORS' DEGREES CONFERRED 1893–1914: A.B., 1495; B.S., 24.

* In 1913–14, 18 and in 1914–15, 3 Barnard seniors registered at Teachers College for the professional diploma are included in the senior figures and not among the Teachers College students.

† In 1916–17, 1 Barnard senior registered in the 3d year of the Journalism course is included.

DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses. The paragraphs on "The Program of Studies," pp. 56–60 should be carefully read.

When an announced course has not been applied for by at least three candidates for a degree, the instructor may withdraw it.

Where the hours for laboratory work are not given either in the departmental statement or in the scheme of attendance, they must be arranged after consultation with the officer in charge of the course.

Courses designated by capital letters are prescribed. Elective courses are designated by numbers, odd numbers indicating the winter session and even numbers, the spring session. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 101 to 199 inclusive are given to courses open to both undergraduates and graduates; the lower numbers in each case being used for the introductory courses.

In the statement of each course the prerequisites are indicated. When no department is named it is to be assumed that the reference is to a numbered course in the same department. *No credit in points will be given for a course which is taken subsequent to the course or courses for which it is in any way a prerequisite, though not formally so announced.*

A hyphenated course (*e.g.*, History **A1–A2**) is regarded as a full-year course of which the first half is always assumed to be a prerequisite for admission to the second half, and, except for reasons of weight, and with the written consent of the instructor, no credit will be given for work dropped at the mid-years or before the completion of the course. A course of which the index signs are separated by a comma (*e.g.*, English **1, 2**) is regarded as a divisible course of which the first half may be taken separately. *Admission to the second half of a divisible course is granted only when all the prerequisites have been met and the written consent of the instructor obtained.*

Courses marked with an asterisk (*) are given at Columbia University. *The number of points credit to be assigned for an advanced course numbered over 100 and given at Columbia University is to be determined in each case by the Committee on Instruction of Barnard College in conference with the instructor or the representative of the department concerned.*

Courses marked with a dagger (†) are given at Teachers College. *Work at Teachers College mentioned herein may be pursued only by regularly enrolled students of Barnard College and only when counting for a Barnard College degree. Certain courses not here specified as being open at Teachers College may, through the courtesy of Teachers College and with the consent of the Committee on Instruction, be taken by such students. All special students of whatever class should enroll at Teachers College for Teachers College courses.*

For further detailed information in regard to topics, text-books, or methods in any particular course, students are referred to the instructors.

INTRODUCTORY COURSES

1–2 — Introductory Survey of Natural and Social Sciences. Professors REIMER, MALTBY, JACOBY, OGILVIE, RICHARDS, CRAMPTON, MR. SHENTON, and Professor MONTAGUE. 4 points for the year (for Journalism students only, extra reading will be assigned in order to make this course a 6-point course for the year and parallel to the corresponding course in the School of Journalism).

M., W., and F. at 1.

Thiscourse consists of lectures and assigned readings in each of the following subjects: chemistry, physics, astronomy, geology, botany, zoölogy, sociology, and philosophy. It is designed to give all students a general idea of the typical problems, methods, and results of the sciences treated and to afford students intending to specialize in science a basis for making an intelligent choice of subject. This course cannot be counted as fulfilling the prescribed requirement in science for the A.B. or the B.S. degree.

ANTHROPOLOGY

1 — General Introductory Course. Professor BOAS. 3 points.

M., W., and F. at 1.

Open to juniors and seniors.

The peoples of Europe. — Antiquity of man; early migrations; early history of Europe and Asia; the development of cultural types in Africa, Australia, the Islands of the Pacific Ocean, and America.

2 — General Introductory Course. Professor BOAS. 3 points.

M., W., and F. at 1.

Open to juniors and seniors.

This course will treat of the types of man as determined by race and environment, economic condition, development of industrial arts, languages, social organization, religions, as found in primitive and more advanced society.

Courses **101,** Introduction to Anthropology, Professor BOAS; **102,** Methods of Anthropological Research, Professor BOAS; **105–106,** Anthropometry, Professor BOAS; **111–112** Archæology of Mexico and Central America, Professor SAVILLE; **113–114,** Archæology of Northwestern South America, Professor SAVILLE; **117–118,** American Languages, Professor BOAS; **129–130,** Ethnography of Africa and the Islands of the Pacific Ocean, Dr. GOLDENWEISER; **131–132,** Prehistoric Archæology and Ethnography of Europe, Professor BOAS; **133–134,** Ethnography of America and Siberia, Dr. GOLDENWEISER; **137–138,** General Ethnology: Material Culture, Dr. GOLDENWEISER; **139–140,** General Ethnology: Social Organization and Religion, Dr. GOLDENWEISER, given at Columbia University, are open, with the consent of the Department of Anthropology and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Philosophy, Psychology, and Anthropology.

ARCHITECTURE. See **Fine Arts**

ASTRONOMY

1 — General Astronomy, Introductory Course. Professor JACOBY. Lectures, 2 points, with third hour, 3 points.

Tu. and Th. at 1 and a third hour to be arranged in the evening, at the Wilde Observatory.

This course is introductory and descriptive, intended for students who do not desire to specialize. The lectures are illustrated by experiments and the stereopticon. Observatory work includes observation of the sun and moon, planets, satellites, nebulæ, and stars.

2 — General Astronomy. Identical in content and credit with Course **1**.

Tu. and Th. at 1 and a third hour to be arranged in the evening, at the Wilde Observatory.

Course **103, 104,** Practical Astronomy, Professor JACOBY, given at Columbia University, is open, with the consent of the Department of Astronomy and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Mathematical and Physical Science.

BOTANY

51–52 — Principles of the Morphology and Physiology of Plants. Professor RICHARDS, Miss STEWART, and Miss RUSK. 2 lectures, 4 hours of laboratory work. Demonstrations to accompany lectures. 8 points.

Lectures M. and F. at 9. Demonstrations and conferences W. at 9. A special laboratory section will be arranged on two afternoons in the week for students who have passed the entrance examination in botany and wish to obtain full credit for the course.

Laboratory fee, $2.50.

53–54 — Comparative Morphology and Development of Plants, Study of Types. Professor HAZEN and Miss RUSK. 2 lectures, 4 or 6 hours of laboratory work. 8 or 10 points.

Tu. and Th. at 10.

Laboratory fee, $2.50.

Prerequisite: Course **51–52.** Course **53–54** is not open to freshmen.

55–56 — Structure and Relationship of Flowering Plants. Professor HAZEN. 1 hour lecture or conference, 4 or 6 hours of laboratory work. 6 or 8 points.

Hours to be arranged.

Laboratory fee, $2.50.

Prerequisite: Course **51–52** or Entrance Botany.

This course is designed to give practice in the recognition of characteristic floral types. Field work may be substituted for some of the laboratory work.

153 — Physiological Anatomy of Vascular Plants. Mrs. RICHARDS. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Tu. and Th. at 11.

Laboratory fee, $2.50.

Prerequisite: Course **53–54** or **55–56** except for seniors on consultation with the instructor.

[**154 — Physiology of Plants from Standpoint of Nutrition.** Professor RICHARDS and Mrs. RICHARDS. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Laboratory fee, $2.50.

Prerequisite: Course **153** and some knowledge of chemistry.

Not given in 1916–17]

Courses **154** and **156** are given in alternate second half-years.

156 — Physiology of Plants from Standpoint of Growth. Professor RICHARDS and Mrs. RICHARDS. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Tu. and Th. at 11.

Laboratory fee, $2.50.

Prerequisite: Course **153** and some knowledge of chemistry.

Courses **154** and **156** are open to students only after consultation with the instructor.

158 — Structure and Development of Algæ. Advanced course. Professor HAZEN. 1 lecture and 6 or 8 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Laboratory fee, $2.50.

Prerequisite: Courses **51–52** and **53–54.**

159 — Structure and Development of Fungi. Advanced course. Professor RICHARDS. 1 lecture and 6 or 8 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Laboratory fee, $2.50.

Prerequisite: Courses **51–52** and **53–54.**

This course includes practice in culture methods.

Courses **158** and **159** are given either in the winter or in the spring session to suit the convenience of the instructors and students.

160 — Embryology and Laboratory Methods. Practice in methods of technique, with the study of the embryology of one or more types. Professor HAZEN. 8 hours of laboratory work with occasional lectures and outside reading. 4 points.

Hours to be arranged.

Laboratory fee, $2.50.

Prerequisite: Course **153**; parallel: Course **154** or **156**.

161, 162 — Advanced Physiology and Morphology. Professors RICHARDS, and HAZEN, and Mrs. RICHARDS.

Laboratory fee, $2.50 for each course.

Work will be arranged to suit the needs of the students, and credit will be given according to the amount accomplished. While the topics assigned in this course usually involve only individual work of an advanced nature, lectures will be given and reading assigned, if a sufficient number of properly qualified students desire them. Some form of essay is usually demanded in connection with the other work.

Open to students only after consultation with the instructor. With the permission of the instructor this course may be taken in successive years.

Journal Club. The advanced students and instructors meet to read and discuss recent books and papers.

CHEMISTRY

5–6 — General Inorganic Chemistry. Professor REIMER, Miss KELLER, Miss TILT, and Miss DOWNES. 5 hours, including lectures, discussions, and laboratory work. 6 points.

M., W., and F. at 11. Laboratory work, Tu., W., or Th., 2–4.30; in order to obtain full credit for the course, students who have passed the entrance examination in chemistry must take the special laboratory course on M., 2–4.30.

Laboratory fee, $4.00.

63 — Qualitative Analysis. Miss KELLER. 3 lectures and 8 hours of laboratory work. 7 points.

Tu. and Th. at 10 and F. at 1; laboratory work, 8 hours, to be taken on M., Tu., and Th. afternoons, 1–4.30.

Laboratory fee, $6.00.

Prerequisite: Course **5–6.**

The lecture work of this course consists of a study of the elements, especially of the metals, and of methods of qualitative analysis.

64 — Quantitative Analysis. Miss KELLER. 3 lectures and 8 hours of laboratory work. 7 points.

Tu. and Th. at 10 and F. at 1; laboratory work, 8 hours, to be taken on M., Tu., and Th. afternoons, 1–4.30.

Laboratory fee, $6.00.

Prerequisite: Courses **5–6** and **63.**

This course deals with fundamental quantitative methods and with such theoretical problems as are involved in analytical processes.

41–42 — Organic Chemistry, Elementary Lecture Course. Professor REIMER. 3 hours. 6 points.

Tu. and Th. at 9 and F. at 2.

Prerequisite: Courses **5–6** and, except for reasons of weight, **63, 64.** It is urged that Course **43–44** be taken with this course.

For the benefit of students who have but one year in which to prepare for a medical college a special course in Organic Chemistry may be arranged in the spring session. It will be numbered Course **42a** and will consist of 3 lectures and a minimum of 6 hours of laboratory work, to count 6 points. The laboratory fee will be $10.00. The course may be taken parallel to Course **5–6.** It will be open only to students preparing in one year for a medical college and will be given for a class of five or more.

43–44 — Organic Chemistry, Elementary Laboratory Course. Professor REIMER. A minimum of 6 hours. 6 points.

Laboratory work to be taken M., Tu., and W. afternoons, 1–4.30.

Laboratory fee, $15.00.

Prerequisite: Courses **5–6, 41–42,** and, except for reasons of weight **63, 64.** Recommended as a parallel to Course **41–42.**

See also note under Course **41–42.**

[**105–106 — Inorganic Chemistry, Advanced Course.** Miss KELLER. 3 lectures and a minimum of 6 hours of laboratory work. 12 points.

Laboratory fee, $20.00.

rerequisite: Courses **5–6, 63, 64,** and Physics **1–2** or **11–12.**

This course is designed to supplement Courses **63** and **64.** The lectures are devoted to a detailed discussion of the elements, and advanced theoretical chemistry. The laboratory work consists of practice in mineral analyses and physical-chemical measurements.

Not given in 1916–17.]

145–146 — Organic Chemistry, Advanced Course. Professor REIMER. 3 lectures and a minimum of 6 hours of laboratory work. 12 points.

M., W., and F. at 1.

Laboratory fee, $20.00.

Prerequisite: Courses **5–6, 41–42, 43–44, 63, 64.**

This course is designed to supplement Courses **41–42** and **43–44.** It is a more comprehensive discussion of the most important classes of organic compounds, their structure and the mechanism of their reactions. Especial attention is given to those problems of theoretical organic chemistry which are being discussed at the present time. The laboratory work consists of the study and identification of organic compounds discussed in the lectures. In the spring session some special problem is assigned to each student.

Journal Club. 1 hour. The advanced students and the instructors meet for reports and discussion on recent scientific papers.

CLASSICAL PHILOLOGY

Greek

1–2 — Elementary Course. Grammar, Composition, Xenophon's Anabasis. Professor HIRST. 6 points.

M., W., and F. at 2.

Prerequisite: Elementary Entrance Latin.

This course may not be begun in the second half-year.

3 — Homer's Iliad. Miss GOODALE. 3 points.

M., W., and F. at 10.

Prerequisite: Course **1–2**, or equivalent credit in Elementary Entrance Greek.

5 — Homer: Odyssey; and Lucian: Selections. Professor VAN HOOK. 3 points.

M., W., and F. at 10.

Prerequisite: Courses **1–2** and **3** or Elementary Entrance Greek.

Prescribed for freshmen taking the A.B. course, unless they offered Advanced Latin at entrance or take Latin **A** in college.

6 — Lucian: Selections; and Plato: Apology. Professor YOUNG. 3 points.

M., W., and F. at 10.

Prerequisite: Courses **1–2** and **3** or Elementary Entrance Greek.

Prescribed for freshmen taking the A.B. course, unless they offered Advanced Latin at entrance or take Latin **A** in college.

9–10 — Prose Composition. First Course. Mr. MESSER. 2 points.

Tu. at 11.

May be taken in connection with any other course (except Courses **1–2**), but not separately.

11 — Euripides: Iphigenia in Tauris; and Sophocles. Professor PERRY. 3 points.

M., W., and F. at 11.

Prerequisite: Advanced Entrance Greek or Course **6**.

12 — Greek Oratory. Professor VAN HOOK. 3 points.

M., W., and F. at 11.

Prerequisite: Advanced Entrance Greek or Course **6**.

[**13 — Herodotus.** 2 points.

Not given in 1916–17.]

[**14 — Homer, or Tragedy.** 2 points.

Not given in 1916–17.]

15 — Herodotus. Mr. MESSER. 2 points.

Tu. and Th. at 10.

Prerequisite: Advanced Entrance Greek or Course **6**.

16 — Plato: Phædo. 2 points. Professor HIRST.
Tu. and Th. at 10.
Prerequisite: Advanced Entrance Greek or Course **6.**
Courses **13, 14,** and **15, 16,** are given in alternate years.

29–30 — Prose Composition. Second Course. Professor VAN HOOK. 4 points.
Hour to be arranged.
Prerequisite: Course **9–10.**
May be taken in connection with any other course, but not separately.

[**31 — Æschylus, or Sophocles; and Aristophanes.** 3 points.
Not given in 1916–17.]

[**32 — Thucydides.** 3 points.
Not given in 1916–17.]

39–40 — Prose Composition. Third Course. Professor VAN HOOK. 4 points.
Hour to be arranged.
Prerequisite: Course **29–30.**
May be taken in connection with any other course, but not separately.

41, 42 — Greek Literature; lectures and required reading. 8 points. Professor VAN HOOK.
M., W., and F. at 2.
Prerequisite: Courses **11, 12,** or **13, 14,** or **15, 16.**
Courses **31, 32** and **41, 42** are given in alternate years.

See also **History 73,** a course on Greek and Roman Theories of Life and Conduct.

Latin

Course **A1, A2** or Course **A3, A4** is prescribed for freshmen taking the A.B. course unless they offered Advanced Latin at entrance or take Greek **5, 6** in college. Course **A3, A4** will be restricted to 20 students and is open only to those who have good entrance records. Prerequisite to the **A** courses: Elementary Entrance Latin.

A1 — Livy: Selections from Book I; Terence (one play). Professors KNAPP, VAN HOOK, HIRST, and GUERNSEY, and Miss GOODALE. 3 points.
Sections I–III, M., W., and F. at 1; Sections IV–VI, Tu., Th., and S. at 9.
During the second half-year this course will be repeated as **Latin A6** on M., W., and F. at 2, for students who enter in February.

A2 — Horace: Selected Odes and Epodes; Catullus. Professors KNAPP, VAN HOOK, LOCKWOOD, and HIRST, Mr. MESSER, and Miss GOODALE. 3 points.
Sections I–III, M., W., and F. at 1; Sections IV–VI, Tu., Th., and S. at 9.
In the winter session of 1917–18 there will probably be a section of Course **A2** for students who enter in February 1917, and do not take Course **A2** in the spring session of 1916–17.

A3, A4 — Selections from Latin Literature, representing characteristic aspects of Roman life and thought. Mr. MESSER. 6 points.
M., W., and F. at 1.

A6 — See under **A1,** above.

9–10 — Prose Composition. First Course. Miss GOODALE. 2 points.
Hours to be arranged: two sections.
May be taken in connection with any other course, but not separately.

11 — Horace: Satires and Epistles. Mr. MESSER. 3 points.
M., W., and F. at 9.
Prerequisite: Advanced Entrance Latin or Courses **A1, A2** or **A3, A4.**

12 — Juvenal; Martial; Pliny: Letters. Miss GOODALE. 3 points.
M., W., and F. at 9.
Prerequisite: Advanced Entrance Latin or Courses **A1, A2** or **A3, A4.**

[**15 — Seneca: prose works, or Cicero: Letters.** 2 points.
Not given in 1916–17.]

[**16 — Tacitus: Selections.** 2 points.
Not given in 1916–17.]

17 — Vergil: Georgics. Professor HIRST. 2 points.
Tu. and Th. at 1.
Prerequisite: Advanced Entrance Latin or Courses **A1, A2,** or **A3, A4.**

18 — Lyric Poetry. Mr. MESSER. 2 points.
Tu. and Th. at 1.
Prerequisite: Advanced Entrance Latin or Courses **A1, A2,** or **A3, A4.**
Courses **15, 16** and **17, 18** are given in alternate years.

29–30 — Prose Composition. Second Course. Professor HIRST. 2 points.
Hour to be arranged.
Prerequisite: Course **9–10.**
May be taken in connection with any other course, but not separately.

31 (old number **32**) **— Roman Drama: Selected plays of Plautus, Terence, and Seneca.** Mr. MESSER. 3 points.
M., W., and F. at 2.
Prerequisite: Courses **11, 12,** or **15, 16,** or **17, 18.**

32 (old number **31**) **— Roman Philosophy: Cicero, Tusculan Disputations, Book I,** and **Cato Maior.** Professor KNAPP. 3 points.
M., W., and F. at 2.
Prerequisite: Courses **11, 12,** or **15, 16,** or **17, 18.**

33 — Caesar, Gallic War, Books IV–VII, or **Civil War.** Professor KNAPP. 2 points.
Tu. and Th. at 2.
Prerequisite (except by special permission): Courses **11, 12,** or **15, 16,** or **17, 18.**

39–40 — Prose Composition. Third Course. Mr. MESSER. 4 points.
Hour to be arranged.
Prerequisite: Course **29–30.**
May be taken in connection with any other course, but not separately.

41, 42 — Latin Literature; lectures and reading. Professor KNAPP. 8 points.
Tu. and Th. at 3 and a third hour to be arranged. (All three hours will be arranged, if necessary.)
Prerequisite: Courses **11, 12,** or **15, 16,** or **17, 18.**

See also **Classical Civilization 52,** a course on Roman Life, and **History 73,** a course on Greek and Roman Theories of Life and Conduct.

Classical Civilization

52 (old number **51**) **— Roman Life and Thought.** Professor KNAPP. 2 points.
Tu. and Th. at 2. Open to all students.

[**53** (old number **52**) **— Greek Life and Thought.** Professor VAN HOOK. 2 points.
Not given in 1916–17.]

[**54 — Greek Art.** 2 points.
Not given in 1916–17.]

See also **History 73,** a course on Greek and Roman Theories of Life and Conduct.

ECONOMICS AND SOCIAL SCIENCE

Economics

A1–A2 — Outlines of Economics. Professor MUSSEY and Miss HUTCHINSON. 6 points.
Entire class Monday at 3; Section I, M. and W. at 10; Section II, Tu. and Th. at 9; Sections III and IV, Tu. and Th. at 10; Sections V and VI, Tu. and Th. at 11.
Prescribed for juniors and open to specially qualified sophomores.

11–12 — Women in Gainful Occupations. Miss HUTCHINSON. 6 points.
M., W., and F. at 10.
Prerequisite: Course **A1–A2.**
A study of the economic and social relations of women.

*** 105 — The Labor Problem.** Professor BARNETT. 2 points.
M., 10–12.
Prerequisite: Course **A1–A2.**

111, 112 — Problems of Public Health — Standards of Living. Professor CHADDOCK. 4 points.
Tu. and Th. at 10.
Prerequisite: Course **A1–A2.**
This course emphasizes the importance of the conservation of human energy and powers especially in relation to the problems of the city community.

115 — History of Socialism. Professor SIMKHOVITCH. 2 points.
Tu. and Th. at 11.
Open to juniors and seniors.

116 — Socialism and the Social Movement. Professor SIMKHOVITCH. 2 points.
Tu. and Th. at 11.
Open to juniors and seniors.

118 — The Trust and Corporation Problem. Professor SEAGER. 2 points.
Tu. and Th. at 1.
Prerequisite: Course **A1–A2.**

Courses **101–102,** Science of Finance, Professor SELIGMAN; **103,** Commerce and Commercial Policy, Professor MUSSEY; **107,** Fiscal and Industrial History of the United States, Professor SELIGMAN; **108,** Railroad Problems: economic, social, and legal, Professor SELIGMAN; **119,** Economic History, Professor SIMKHOVITCH, given at Columbia University are open, with the consent of the Department of Economics and the Committee on Instruction, to specially qualified seniors and juniors. For fuller information students are referred to the Announcement of the Division of History, Economics, and Public Law.

Sociology

Courses **151, 152,** Principles of Sociology, Professor TENNEY, given at Columbia University, are open, with the consent of the instructor and the approval of the Department of Economics at Barnard College, to specially qualified seniors and juniors. For fuller information students are referred to the Announcement of the Division of History, Economics, and Public Law.

EDUCATION

Course **A** is prerequisite to all other courses in Education. Course **B** should be taken before, or parallel with, all more advanced courses.

Specially qualified seniors who have obtained the permission of the Dean of Barnard College to take courses in Education counting towards the Teachers College Diploma should arrange to pursue if possible during the senior year Courses **281,** and **283** or **284,** and a methods course in their special subject.

† **A — Educational Psychology.** Professor WHITLEY. 3 points.
Winter session only: Section II, M., W., and F. at 10.
Spring session only: Section III, M., W., and F. at 9; Section IV, at 10.
Prerequisite: Philosophy **A1** or **A4.**

† **B — History and Principles of Education.** Professor GOODSELL. 6 points.
Section I, M., W., and F. at 3; Section II, Tu., Th., and S. at 10.
Prerequisite: Course **A.**

† **281 — Class Instruction in Secondary Schools.** Professor STEVENS. Half course, 2 points.
M. and W. at 4.
Prerequisite or parallel: Course **B.**

† **283** (or † **284**) **— Supervised Observation and Practice.** Professor STEVENS and Mr. GARVER.
Either Course **283** or Course **284** may be taken, **283** in the winter or **284** in the spring session. Each is a half course, 2 points.
Conference hour, F. at 4.
Prerequisite or parallel: Course **281.**

Specially qualified seniors who desire to be candidates for a Teachers College Diploma, may, with the permission of the Dean and the Committee on Instruction of Barnard College, and the appropriate instructor in Teachers College, elect any of the following courses: **203,** Administrative and Social Bases of Foreign School Systems, Dr. KANDEL; **204,** Organization, Curricula, and Methods of Teaching in Foreign Schools, Dr. KANDEL; **222,** Education of Women, Professor GOODSELL; **227,** History of Secondary Education, Dr. KANDEL; **241–242,** Philosophy of Education, Professor KILPATRICK; **257,** Educational Psychology, Professor NORSWORTHY; **258B,** Psychology of the Secondary School Subjects, Professor RUGER; **260,** Applications of Analytic and Genetic Psychology to Education, Professors NORSWORTHY and WHITLEY; **286,** Comparative Secondary Education, Professor SACHS; **290,** Social Organization and Control of the Secondary School, Professor STEVENS, and courses in the methods of teaching special subjects. In all cases students who wish to take a methods course must arrange for the practical work with the instructor before registration in that course.

For a list of the methods courses and the diplomas of Teachers College students are referred to the Announcement of the School of Education of Teachers College.

ENGLISH

A1–A2 (A4–A5) — Composition. Professor BALDWIN, Miss WEEKS, Mr. HALLER, Dr. HOWARD, Miss STURTEVANT, and Miss LATHAM. 6 points.

Oral and written exposition and argument; description and narrative.

Students may tentatively select one of the following sections, but the department reserves the right to make any changes necessary.

A1–A2, Section I, Tu., Th., and S. at 9; Section II, Tu., Th., and S. at 10; Section III, Tu., Th., and S. at 11; Section IV, Tu. and Th. at 2, S. at 11; Section V, M., W., and F. at 10; Section VI, M., W., and F. at 11; Section VII, M., W., F. at 2.

Prescribed for freshmen and prerequisite for any other course.

A4, the equivalent of **A1,** is prescribed for students entering college in February; and **A5,** the equivalent of **A2,** is prescribed for these students in the first term of sophomore year.

A4, Section I, Tu. at 1 and Th. 1–3; Section II, M., W., and F. at 2.

A5, Section I, M., W., and F. at 2; Section II, T., Th., and S. at 11; Section III, T. and Th. at 2, S. at 11.

B — English Literature. The prescription of six additional points of English (twelve points in all) may be met by any one of the following **B** courses, the particular course being determined partly by the student's choice, partly by the proficiency or aptitude shown in Course **A1–A2.** In special cases students are permitted to substitute for a **B** course one of the numbered elective courses. In general, students who as juniors or seniors elect courses in addition to the twelve points prescribed are expected, and candidates for honors are required, so to distribute their choices as to study both the earlier literature and the later. Either course **29–30** or course **31, 32** is required of candidates for third-year honors.

Every election must have the written approval of the department.

Prerequisite: Course **A1–A2.**

B1, B2 — Narrative. The development of narrative literature: primitive and artistic epic, Arthurian romance, ballads, Chaucer's *Troilus and Criseyde* and four of the *Canterbury Tales,* general survey of the novel and the short story. Miss STURTEVANT. 6 points.

M., W., and F. at 1.

B3, B4 — Poetry. Intensive study of poetic conceptions and forms in a wide range of types. Professor HUBBARD and Mr. HALLER. 6 points.
Section I, M., W., and F. at 10; Section II, at 11.

B5, B6 (old number **B11, B12**) **— Drama.** The development of English drama, with especial study of the Elizabethan period. Miss LATHAM.
Section I, Tu., Th., and S. at 10; Section II, M., W., and F. at 1.

B7, B8 (old number **B5, B6**) **— Survey of English Literature.** A rapid survey of the masterpieces of English literature since the Renaissance, especially in poetry and drama. Dr. HOWARD. 6 points.
M., W., and F. at 9.
This course is designed (1) *for students intending to transfer to the School of Journalism*, and (2) for a limited number of students who do not intend to take any of the numbered elective courses.

B9, B10 — Journalistic Writing. Practice in writing newspaper supplement articles on subjects growing out of current events: interviews, short biographies of contemporaries, research articles, short stories. Analysis of the policy and characteristics of various American periodicals. Dr. HOWARD. 6 points.
Tu., Th., and S. at 9.
Prescribed for *sophomores intending to transfer to the School of Journalism*, and equivalent to Journalism **A1, A2**; not open to other students.

B11, B12 (old number **B7, B8**) **— Composition.** Short themes, story-writing, essay-writing, collateral reading. Miss STURTEVANT. 6 points.
Tu., Th., at 10, and a third hour to be arranged.
Except in special cases, **B11** is prerequisite to **B12.**

1, 2 — Composition. Professor BREWSTER. 6 points.
Tu. and Th. at 10 and a third hour to be arranged.
Prerequisite: a **B** course. Except in special cases, Course **1** is prerequisite to Course **2.**
Daily themes (winter session) and weekly and fortnightly themes (spring session).

3, 4 — Composition. Professor BALDWIN. 6 points.
Two consecutive hours, to be arranged, and a third appointment for criticism.
This special course in imaginative writing, especially of stories and plays, is open to a limited number of seniors. Applications should be made two weeks before the date for handing in elections.

7–8a (or **7a–8**) **— Elocution and Public Speaking.** Professor TASSIN and Mrs. DAVIS. 5 points (see note below).
M., W., and F. at 1.
One semester of elocution (**7** or **8**), 2 points, and one semester of public speaking (**7a** or **8a**), 3 points.
Prerequisite, Course **A1–A2.**

19 — American Literature after 1780. Professor BAKER. 2 points.
Tu. and Th. at 1.
Prescribed for *sophomores intending to transfer to the School of Journalism*, except those who are advised to substitute a language course. Prerequisite for other students, a **B** course.

23, 24 — English Victorian Literature. Professor HUBBARD. 6 points.
M., W., and F. at 11.
Prerequisite, a **B** course. Except in special cases, Course **23** is prerequisite to Course **24.**

25, 26 — English Poetry from 1550 through Milton. Winter session, from 1550 to 1625; spring session, from 1625 to 1674. Professor TRENT. 6 points.
M. and W. at 10.
Prerequisite, except in special cases, a **B** course.

27, 28 — English Poetry from Dryden to the Victorian Period. Winter session, from Dryden to Wordsworth; spring session, from Wordsworth to 1830. Professor TRENT. 6 points.
M. and W. at 11.
Prerequisite, except in special cases, a **B** course.

29–30 — Old and Middle English. Readings in representative texts to the time of Chaucer, accompanied by an historical survey of the development of the English language from Old English to modern times Professors PATTERSON and KRAPP. 4 points.
Tu. and Th. at 10.
Prerequisite, except in special cases, a **B** course.

31 — Chaucer. The language and poetry of Chaucer, the ideas and literary habits of his time. Professor BALDWIN. 3 points.
M., W., and F. at 10.
Prerequisite, except in special cases, a **B** course.

32 — Types of Mediæval Literature, Romances, ballads, and other important forms in England and on the continent. Professor GILDERSLEEVE. 3 points.
M., W., and F. at 10.
Prerequisite, except in special cases, Course **31.**

35, 36 — Shakspere. Professor WRIGHT. 6 points.
M., W., and F. at 2.
Prerequisite, except in special cases, a **B** course.

37, 38 — English Prose, including Fiction. Professor BREWSTER. 6 points.
Tu. and Th. at 2.
Prerequisite, except in special cases, a **B** course.

45–46 — English Literary Criticism. Professor HUBBARD. 6 points.
Tu. and Th. at 11 and a third hour to be arranged.
Open, by special permission of the department, to juniors and seniors who have taken at least one elective course in English.

FINE ARTS AND ARCHITECTURE

Fine Arts

*** 101, 102 — History of Art; Ancient and Mediæval.** Curator BACH. 4 points.
Open to qualified juniors and seniors approved by the Committee on Instruction.
Tu. and Th. at 4.
Courses **101, 102** and **103, 104** are given in alternate years.

[*** 103, 104 — History of Art; Renaissance and Modern.** Curator BACH. 4 points.
Open to qualified juniors and seniors approved by the Committee on Instruction.
Not given in 1916–17; will be offered in 1917–18.]

Architecture

For fuller information students are referred to the Announcement of the School of Architecture.

*** 21, 22 — Ancient Architecture.** Professor HAMLIN. 4 points.
T. and Th. at 1.
Prerequisite: Fine Arts **101, 102.**

*** 23, 24 — Mediæval and Oriental Architecture.** Professor HAMLIN. 4 points.
M. and F. at 10.
Prerequisite: Fine Arts **101, 102.**

*** 25, 26 — Renaissance and Modern Architecture.** Professor HAMLIN. 4 points.
Tu. and Th. at 10.
Prerequisite: Fine Arts **103, 104.**

*** 27 — Historic Research: Ancient and Mediæval Architecture.** Professor HAMLIN and Curator BACH. The equivalent of 4 hours' research weekly. 3 points.
Hour to be arranged.
Prerequisite or parallel: Course **21, 22** or **23, 24.**

*** 28 — Historic Research: Renaissance and Modern.** Professor HAMLIN and Curator BACH. The equivalent of 4 hours' research weekly. 3 points.
Hour to be arranged.
Prerequisite or parallel: Course **23, 24.**

*** 31, 32 — Ancient Ornament.** Professor HAMLIN. 2 points.
W. at 1.
Prerequisite: the student should consult the instructor before registration.

*** 33, 34 — Mediæval Ornament.** Professor HAMLIN. 4 points.
W. at 11.
Prerequisite: the student should consult the instructor before registration.

*** 35, 36 — Modern Ornament.** Professor HAMLIN. 4 points.
W. at 9.
Prerequisite: the student should consult the instructor before registration.

*** 41, 42 — Theory and Processes of Decorative Arts.** Curator BACH. 4 points.
Th. at 10.
Open to all students.

[*** 91, 92 — History of Painting.** Curator BACH. 4 points.
Not given in 1916–17; will be offered in 1917–18.]

*** 93, 94 — History of Sculpture.** Curator BACH. 4 points.
Tu. at 10.
Open to all students.

FRENCH. See **Romance Languages and Literatures**

GEOGRAPHY

[**1 — General Geography including the Elements of Meteorology and Climatology.** 2 lectures and 2 hours of laboratory work. 3 points.
Not given in 1916–17.]

[**2 — Regional and Commercial Geography.** 2 lectures and 2 hours of laboratory work. 3 points.
Not given in 1916–17.]

GEOLOGY [1]

1, 2 — General Geology. Elementary course. Professor OGILVIE, Mr. MOOK, and ——. 2 lectures, 4 hours of laboratory work. 8 points.
Tu. and Th. at 9. Laboratory and field work, hours to be arranged.
Students who have had no previous scientific training will meet for occasional conferences and discussions at some hour to be arranged.

5–6 — Economic Geology. A study of the formation, distribution, uses, and of the problems of conservation of ore deposits, coal, and other mineral resources. Professor OGILVIE and Mr. MOOK. 4 points.
Hours to be arranged.
Prerequisite: Course **1, 2.**

[1] In the reckoning of points for major and minor subjects, geology and mineralogy may be counted as one subject.

17 — Glacial Geology. 2 lectures weekly on the past glacial periods, their causes and their after-effects. Professor OGILVIE. 2 points.

Hours to be arranged.

Prerequisite or parallel: Course **1, 2.**

19 — Physiographic Geology. Professor OGILVIE and ——. 1 lecture and 2 hours of laboratory work. 2 points.

Hours to be arranged.

Prerequisite: Course **1.**

20 — Historical Geology. History of the earth considered in greater detail than in Course **2.** Professor OGILVIE, Mr. MOOK and ——. 2 lectures and 2 hours of laboratory work. 3 points.

Hours to be arranged.

Prerequisite: Course **1, 2.**

21, 22 — Palæontology. A systematic study of the development of life. Professor OGILVIE, Mr. MOOK and ——. 4, 6 or 8 points.

Lecture, Tu. or Th. morning; laboratory work to be arranged.

23, 24 — Local Geology of New York. Field work in autumn and spring; laboratory work and lectures on local topics in winter. Professor OGILVIE. 2 points.

S., field work for the whole or half day, Oct., Nov., April, and May; in other months, laboratory or lecture, S. at 10.

This course may be taken in connection with any other course in geology.

113 — Summer Field Course. Professor OGILVIE. 2 weeks in the field involving the subsequent preparation of a report. 4 points.

Time to be arranged.

Prerequisite: Course **1, 2.**

115, 116. — Palæontology. Professor OGILVIE, Mrs. MOOK and Mr. MOOK. The same lectures as course **21, 22** but with additional laboratory work. 2 full courses or 2 half courses.

Lectures, Tu. or Th. morning; laboratory work to be arranged.

This course is intended primarily for graduate students and is open to undergraduates only by special permission of the instructor.

* **124** (old number **117, 118**) **— Glacial Geology and Advanced Physiography.** Professor OGILVIE. Lectures, reading, field and laboratory work. 2 points.

Hours to be arranged.

Prerequisite: Course **1, 2.**

127, 128 — Field and laboratory work of Course **23, 24,** with additional study of assigned topics. Professor OGILVIE.

Credit will be given according to the amount of work accomplished.

Hours to be arranged.

Open to advanced students only.

125 — General Geology. Advanced Course. A study of the igneous and the metamorphic rocks together with a consideration of the fundamental problems and causes of vulcanism and of diastrophism. Professor OGILVIE.

Work will be arranged to suit the needs of the students and credit will be given according to the amount accomplished.

Prerequisite: Course **1, 2.**

Journal Club. The advanced students and instructors in Columbia University meet one evening fortnightly for the discussion of current papers and problems. The meetings of the Journal Club are open to Barnard students taking courses in geology.

Courses **107, 108,** Invertebrate Paleontology, Professor GRABAU; **116,** Index Fossils of North America, Professor GRABAU; **119** and **121,** Physiographic Geology, Professor JOHNSON; **151, 152,** Principles of Geology, Professors GRABAU and BERKEY, are open, with the consent of the Department of Geology and the Committee on Instruction, to properly qualified juniors and seniors. For fuller information students are referred to the Announcement of the Division of Geology, Geography, and Mineralogy.

GERMANIC LANGUAGES AND LITERATURES

Under the new requirements in Modern Languages (see p. 59) no German courses are now prescribed and none can therefore automatically excuse the student from the required departmental test. Courses **1–2** and **3, 4,** or **5, 6,** or **7, 8,** are, however, designed to give the proficiency required.

1–2 (old number **A1–A2**) **— Beginners' Course.** Elements of grammar, easy reading, written and oral practice. Drs. HASKELL, BETZ and PUCKETT. 6 points.

Section I, M., W., and F. at 9; Section II, at 10; Section III, Tu., Th., and S. at 9.

3, 4 (old number **1–2**) **— Intermediate Course.** Rapid reading and syntactical review. Drs. HASKELL and BETZ. 6 points.

Section I, M., W., and F. at 10; Section II, at 1.

Prerequisite to Course **3:** Course **1–2,** Elementary Entrance German or its equivalent.

Prerequisite to Course **4:** Course **3,** Intermediate Entrance German or its equivalent.

3a, 4a (old number **3–4**) **— Composition and Colloquial Practice. Elementary Course.** Drill in German syntax and idiom. Dr. BETZ. 4 points

Section I, Tu. and Th. at 9; Section II, at 11.

Prerequisite: Course **1–2,** or Elementary Entrance German. This course may be elected only in combination with Courses **3, 4, 5, 6,** or **7, 8.**

5, 6 — Selected Dramas of Lessing, Goethe, and Schiller. Texts and essays. Professor BRAUN, Drs. BETZ and PUCKETT. 6 points.

Section I, M., W., and F. at 9; Section II, at 11; Section III, Tu., Th., and S. at 11.

Prerequisite to Course **5:** Course **3, 4,** or, with the consent of the department, Intermediate Entrance German.

Prerequisite to Course **6:** Course **5.**

7, 8 — Modern German Prose. Rapid reading of modern German historians, essayists, and critics. Studies in vocabulary and style. Professor BRAUN. 6 points.

M., W., and F. at 10.

Prerequisite: Course **3, 4,** or, with the consent of the department, Intermediate Entrance German.

9, 10 — Intermediate Practice Course. German conversation and themes. Dr. PUCKETT. 4 or 6 points (see note below).

Tu. and Th. at 10, and F. at 9.

Prerequisite: Course **3a, 4a,** or **5, 6,** or **7, 8.**

Except by special permission, Course **9, 10** may be elected *as a two-hour course* only in combination with another German course more advanced than Course **3a, 4a.** *All students specializing in German should take it as a three-hour course.*

11, 12 — Colloquial Practice. Advanced Course. Discussions in German of the general outlines of the history of German civilization, with special reference to the geographical features of the country and its historical development. Dr. HASKELL. 4 points.

M. and W. at 1.

Prerequisite: Course **9, 10** or its equivalent.

Unless the department advises otherwise, this course should be elected in combination with another German course more advanced than **9, 10.**

21, 22 — Goethe. Life and Selected Works. Texts, reports, and lectures. Dr. HASKELL. 6 points.

M., W., and F. at 11.

The first term is open to qualified students who have taken Course **5, 6** or **7, 8;** the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

Courses **21, 22,** and **23, 24** are given in alternate years.

[**23, 24 — Schiller. Life and Selected Works.** Texts, reports, and lectures. Dr. HASKELL. 6 points.

Not given in 1916–17.]

25, 26 — The Drama of the Nineteenth Century. Professor BRAUN 4 points.

Tu. and Th. at 9.

Prerequisite to Course **25:** Course **5, 6.**

Prerequisite to Course **26:** Course **25.**

27 — The German Lyric. Dr. PUCKETT. 3 points.

M., W., and F. at 1.

Prerequisite: Course **5, 6** or **7, 8.**

28 — The German Novelle. Dr. PUCKETT. 3 points.

M. W., and F. at 1.

Prerequisite: Course **5, 6 or 7, 8.**

37, 38 — History of German Literature from the earliest times to the nineteenth century. Professor THOMAS. 4 points.

Tu. and Th. at 11.

The first term is open to juniors and seniors who have taken Course **5, 6** or **7, 8;** the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

39, 40 — Goethe's Faust; First and Second Parts. Lectures and recitations. Professor BRAUN. 4 points.

Tu. and Th. at 10.

The first term is open to juniors and seniors who have taken Course **5, 6** or **7, 8**; the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

Courses **105,** German Literature from 1796 to 1871, Dr. BÖHME; **106,** Contemporary German Literature, Dr. BÖHME; **107,** History of the German Language, Professor REMY; **108,** The German of To-day; **109,** Heinrich von Kleist, Vorlesungen und Aufsätze in deutscher Sprache, Professor HEUSER; **112,** Myth and Legend in the Works of Richard Wagner, Professor REMY; **113–114,** Middle High German Literature, Professor HERVEY, given at Columbia University, are open, with the consent of the Department of German and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages and Literatures.

GREEK. See **Classical Philology**

HEBREW. See **Semitic Languages**

HISTORY

A1–A2 — Epochs of European History, with special reference to forms of government and changes in social conditions. Professor MUZZEY and Dr. HUTTMANN. 6 points.

Sections I and II, Tu., Th., and S. at 9; Sections III and IV, Tu., Th., and S. at 10.

Prescribed for sophomores and for *freshmen intending to transfer to the School of Journalism.* This course is prerequisite to all the courses enumerated below.

Students who pass the entrance examination in mediæval and modern history may, with the permission of the Department of History, substitute for History **A1–A2**, as the prescribed work, one of the courses in history numbered less than **100,** provided that the total number of points of credit attached to the course be not less than six.

3–4 — Greece and Early Italy. Professor BOTSFORD. 6 points.

M., W., and F. at 9.

Courses **3–4** and **5–6** are given in alternate years.

[**5–6 — The Roman Empire.** Professor BOTSFORD. 6 points.

Not given in 1916–17.]

9, 10 — Modern European History, with special reference to the development of France. Professor MUZZEY. 4 points.

Tu. and Th. at 1.

Prescribed for *sophomores intending to transfer to the School of Journalism.*

11, 12 — English History, with special reference to the history of Continental Europe. Dr. HUTTMANN. 6 points.

Tu. and Th. at 1 and a third hour to be arranged.

13, 14 — History of the United States to the Close of Reconstruction. Professor SHEPHERD. 4 points.

M. and W. at 11.

15–16 — History of the United States since 1870 with special reference to economic and social conditions. Professor MUZZEY. 4 points.

Tu. and Th. at 2.

Prescribed for *sophomores intending to transfer to the School of Journalism.*

19, 20 — Contemporary European History. Professor SHOTWELL and Miss MCKENZIE. 6 points.

M., W., and F. at 2.

Prerequisite: Course **A1–A2.**

Prescribed for *sophomores intending to transfer to the School of Journalism.*

73 — Greek and Roman Theories of Life and Conduct. Mrs. PUTNAM. 2 points.

Tu. and Th. at 11.

Open to juniors and seniors. This course is specially recommended to students taking Course **121.**

121, 122 — The History of the Intellectual Class in Europe. Professor ROBINSON and Dr. HUTTMANN. 6 points.

Tu. and Th., 2–4.

Open only to seniors and to specially qualified juniors.

Prerequisite to Course **122:** Course **121.**

*** 156 — Social History of Modern Europe.** Professor SHOTWELL and Miss MCKENZIE. 3 points.

M., W., and F. at 3.

Open to seniors and to specially qualified juniors.

Courses **117,** History of Greece to the End of the War with Persia, Professor BOTSFORD; **169–170,** The Expansion of Europe, Professor SHEPHERD, given at Columbia University, are open, with the consent of the Department of History and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of History, Economics, and Public Law.

HYGIENE. See **Physical Education**

ITALIAN. See **Romance Languages and Literatures**

LATIN. See **Classical Philology**

MATHEMATICS

A1, A2 — Trigonometry, Algebra, and Geometry. Trigonometry, including the use of tables, the solution of triangles, and the important analytical formulæ; algebra, including permutations and combinations, determinants and logarithms; graphical analysis, solid geometry. Dr. CURTIS, Dr. FISCHER, and Mr. MULLINS. 6 points.

Sections I and II, M., W., and F. at 9; Sections III and IV, M., W., and F. at 10; Section V, M., W., and F. at 11; Section VI, M., W., and F. at 2; Section VII, Tu., Th., and S. at 9.

Mathematics **A1, A2** (except such parts — trigonometry, algebra, or solid geometry — as were passed for entrance) is prescribed for all freshmen.

During the spring session, the work of the first term will be repeated as Mathematics **A4,** on Tu., Th., and S. at 10, for students who enter in February.

21 — Analytical Geometry. Introduction to the analytical geometry of the plane and of space. Professor KASNER. 3 points.

M., W., and F. at 11.

Prerequisite: Course **A1, A2,** or Advanced Entrance Mathematics.

22 — Calculus. Elementary course in differential and integral calculus. Professor KASNER. 3 points.

M., W., and F. at 11.

Prerequisite: Course **21.**

23–24 — Theory of Equations. Algebraic and numerical solution of equations, determinants, complex numbers. Dr. CURTIS. 6 points.

M., W., and F. at 2.

Prerequisite: Course **A1, A2.**

25–26 — Calculus. Differential and integral calculus. Professor COLE. 6 points.

M., W., and F. at 11.

Prerequisite: Course **22.**

27–28 — Projective Geometry. Projective methods of pure geometry. Mr. MULLINS. 6 points.

M., W., and F. at 1.

Prerequisite: Course **21.**

31–32 — Advanced Analytical Geometry. Modern methods in analytical geometry; solid analytical geometry. Dr. CURTIS. 6 points.

Hours to be arranged.

Prerequisite: Course **25–26.**

33–34 — The Fundamental Concepts of Modern Mathematics. Lectures, discussions, and reports. Professor KASNER. 6 points.

M., W., and F. at 10.

Prerequisite or parallel: Course **25–26.**

[**35–36 — General Introduction to Higher Mathematics.** Professor KASNER. 6 points.

Prerequisite or parallel: Course **25–26.**

Not given in 1916–17.]

† **151, 152 — History of Mathematics.** Professor D. E. SMITH. 2 full course, 6 points.

M. and W., 4–5.30.

MINERALOGY[1]

1 (old number **17**) **— General Mineralogy.** The physical properties of minerals, their occurrence, distribution, and uses; crystallography; and crystal projection. Professor OGILVIE and Mr. MOOK. 1 lecture and 2 or 4 hours of laboratory work. 2 or 3 points.

Hours to be arranged.

Prerequisite: some knowledge of chemistry.

Laboratory fee, $1.50

[1] In the reckoning of points for major or minor subjects, mineralogy and geology may be counted as one subject.

2 (old number **18**) — **Blowpipe Analysis.** Professor OGILVIE. 1 lecture and 4 hours of laboratory work. 3 points.

Hours to be arranged.

Prerequisite: Course **1.**

Laboratory fee, $1.50

6 — Optical Mineralogy. The effect of various kinds of crystals upon light; the use of the petrographic microscope; a study of oriented sections of minerals, and of haphazard sections of minerals in powders and in rocks. Professor OGILVIE and Mr. MOOK. 1 lecture and 2 hours of laboratory work. 2 points.

Hours to be arranged.

Prerequisite: Course **1.**

MUSIC

*** 1–2 — General Musical Course.** History of Music from Palestrina to the death of Beethoven, with illustrations. Professor MASON. 4 points.

Tu. and Th. at 11.

This course requires no previous knowledge of music.

*** 3–4 — General Musical Course, Advanced.** Discussion of modern music. Professor MASON. 4 points.

M. and W. at 10.

Prerequisite: Course **1–2.** Students who have not taken Course **1–2** will be admitted, but will be required to take a special examination during the first few weeks showing a general knowledge of the chief contributions to music of the classic masters — Bach, Haydn, Mozart, Beethoven. Such a knowledge may be obtained by reading Surette and Mason's *The Appreciation of Music.*

*** 7, 8 — Harmony.** Mr. WARD. 6 points.

M., W., and F. at 1.

Prerequisite: a knowledge of musical notation.

*** 9–10 — Advanced Harmony and Elementary Form.** Professor MASON. 4 points.

M. and W. at 11.

Prerequisite: Course **7, 8.**

*** 11, 12 — Counterpoint.** Mr. WARD. 4 points.

Tu. and Th. at 2.

Prerequisite: Course **7, 8.**

*** 13–14 — Composition and Orchestration.** Professor RUBNER. 4 points.

Th., 10–12.

Prerequisite: Course **9–10.**

Courses **101–102,** Advanced Composition and Orchestration, and **103–104,** Orchestration and Symphonic Form, Professor RUBNER, given at Columbia University, are open, with the consent of the Department of Music and the Committee on Instruction, to properly qualified seniors.

For fuller information regarding the various courses in music, students are referred to the appropriate University Announcement.

PHILOSOPHY AND PSYCHOLOGY

Philosophy

A1, A2 — Introductory Course. Psychology and Logic. Professors MONTAGUE and HOLLINGWORTH, Dr. COSTELLO and Dr. WHITE. 6 points.

Philosophy **A1** and **A4** are identical psychology courses. Philosophy **A2** and **A3** are identical logic courses. Two half-year courses, one psychology (**A1** or **A4**) and the other logic (**A2** or **A3**), are prescribed for sophomores and may be taken in any combination desired. Specially qualified seniors and juniors may, with the consent of the Department of Philosophy, substitute Course **61–62** for Course **A1, A2.**

A1, A2, Section I, M., W., and F. at 9; Section II, at 10; Section III, Tu., Th., and S. at 10. **A3, A4,** Section IV, M., W., and F. at 9; Section V, at 11.

21–22 — Ethics. Professor LORD. 8 points.

M., W., and F. at 1.

Prerequisite: Course **A1, A2.**

61–62 — The History of Philosophy. Professor MONTAGUE. 8 points.

M., W., and F. at 9.

Prerequisite: Course **A1, A2,** except in special cases, where, with the consent of the Department of Philosophy, Course **61–62** is substituted for Course **A1, A2.**

66 — The Dialogues of Plato. Professor BUSH. 3 points.

Tu. and Th. at 11.

Prerequisite: Course **A1, A2.**

79–80 — Contemporary Philosophy. Dr. COSTELLO. 6 points.

Tu. and Th. at 9.

Prerequisite: Course **A1, A2.**

Courses **107,** English Realism, Dr. COSTELLO; **108,** Logistic, Dr. COSTELLO; **123–124,** History of Ethics, Dr. COOLEY; **126,** the Ethics of Aristotle and the Ethics of Kant, Professor ADLER; **121–122,** Psychology of Ethics, Professor DEWEY; **175–176,** Neo-Scholasticism, Father CLIFFORD, given at Columbia University, are open, with the consent of the Department of Philosophy and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Philosophy, Psychology, and Anthropology.

Psychology

7–8 — Experimental Psychology, Introductory Course. Professor HOLLINGWORTH. 2 lectures and 4 hours of laboratory work. 8 points.

W. and F. at 10; laboratory work, M. at 10, and W., Th., or F., 1–4.

Prerequisite: Philosophy **A1** or **A4.**

9, 10 — Experimental Psychology, Intermediate Course. Professor HOLLINGWORTH. 1 hour conference and 4 hours of laboratory work. 6 points.

Conference, M. at 11; laboratory work, W., Th., or F. afternoons.

Prerequisite: Course **7–8** or its equivalent.

11 — Abnormal and Applied Psychology. Professor HOLLINGWORTH. 2 lectures, reading, reports, and visits to clinics and institutions. 3 points.

W. and F. at 11; other hours to be arranged.

Prerequisite: Philosophy **A1** or **A4.**

12 — Analytic Psychology. Professor HOLLINGWORTH. Lectures, reading, and discussion. 3 points.

W. and F. at 11.

Prerequisite: Philosophy **A1** or **A4.**

Courses at Columbia University numbered over **100** in analytic, experimental, physiological, and genetic psychology are open to specially qualified seniors with the consent of the Department and of the Committee on Instruction. For details of these courses see the Announcement of the Division of Philosophy, Psychology, and Anthropology.

PHYSICAL EDUCATION

† A1, A2 — Lectures on Personal Hygiene, Elementary Dancing, Games, and Athletics. Miss BEEGLE. 2 points.

Lecture (winter session only), Section I, Tu. at 1; Section II, at 2; and gymnasium work in sections as follows:

Section I (elementary dancing), M. and W. at 3.

Section II (advanced dancing), Tu. and Th. at 11.

Section III (general athletics and swimming), Tu. and Th. at 3, M., at 4.

Prescribed for freshmen unless Course **D1, D2** is substituted by advice of the Director of Physical Education.

† B1, B2 — Group Conferences, Athletics, Games, and Dancing. Miss BEEGLE. 2 points.

Conference hours to be arranged, and gymnasium work in sections as follows:

Section I (dancing), Tu. and Th. at 10.

Section II (dancing), Tu. and Th. at 11.

Section III (general athletics), M. or W. at 4, (and swimming) M. or W. at 3.30.

Prescribed for sophomores unless excused by the Director of Physical Education. Such sophomores as have completed Course **D1, D2** and are excused from Course **B1, B2** by the Director of Physical Education, are not required to take any further work in Physical Education.

† C1, C2 — Advanced Folk and Interpretative Dancing. Miss BEEGLE. 2 hours.

Hours to be arranged after consultation with the instructor.

Open to juniors and seniors. This course cannot be counted for a degree.

D1, D2 — Hygiene, Physiology, and Public Health Problems. Miss BEEGLE. 2 points.

Tu. at 2.

Prescribed as an alternative for freshmen who have been excused from Course **A1, A2** by the Director of Physical Education. Course **D1** is identical with the lectures of **A1.**

NOTE. — Indoor basket-ball, hockey, and base-ball practice in the gymnasium on M. at 5; Tu. at 4; and S. at 11. All students substituting

athletics for Course **A** or **B** are required to register for one period of gymnasium work and two periods of practice.

An annual gymnasium fee of $7 is required of every student in Barnard College. This entitles the student to a locker and the use of the gymnasium, swimming-pool, hand-ball courts, and bowling alleys at scheduled hours.

The prescribed gymnasium and field costume consists of dark blue bloomers, white sailor blouses, and ties of class color. Detailed information concerning the costume will be posted on the bulletin of the Physical Education office, Room 116, Barnard College.

For detailed description of other courses in Hygiene and Physical Education, offered by the Faculty of Teachers College and open to Barnard College students, see the Announcement of the School of Education of Teachers College or of the Division of Physical Education.

PHYSICS

1–2 — Elementary Course in General Physics. Professor MALTBY, Miss LANGFORD, and Miss BRANT. 3 hours of lectures and discussions, and 2 hours of laboratory work. 6 points.

M., W., and F. at 11.

This course is intended for students who have never studied physics and do not intend to enter a medical school.

11–12 — General Physics. Professor MALTBY, Miss LANGFORD, and Miss BRANT. 2 hours of lectures, 1 hour of discussion, and 2 hours of laboratory work. 6 points. Students intending to enter a medical school must take this course with three hours of laboratory work. 7 points.

Tu. and Th. at 11, and a third hour for discussion to be arranged.

Prerequisite: Entrance Physics.

31 — Mechanics. Miss LANGFORD. 3 hours, lectures and discussions, and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Course **1–2** or **11–12,** except by special arrangement.

32 — Heat and the Properties of Matter. Miss LANGFORD. 3 hours, lectures and discussions, and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Course **31,** except by special arrangement.

33 — Sound. Professor MALTBY. 3 hours, lectures and discussions, and 2 hours of laboratory work. 4 points.

Hours to be arranged.

Prerequisite: Course **1–2** or **11–12.**

34 — Light. Miss LANGFORD. 3 hours, lectures and discussions, and 2 hours of laboratory work. 4 points.

Hours to be arranged.

Prerequisite: Course **1–2** or **11–12.**

[**35 — Electricity and Magnetism.** Miss LANGFORD. 4 or 5 points.

Hours to be arranged.

Prerequisite: Courses **31** and **32.**

Not given in 1916–17.]

[**36 — Electricity.** Miss LANGFORD. 4 points.
Hours to be arranged.
Prerequisite: Course **35.**
Not given in 1916–17.]

[**138 — Theory of Electricity.** Professor MALTBY. 3 points.
Hours to be arranged.
Prerequisite: Courses **35, 36.**
Not given in 1916–17.]

POLITICS

1, 2 — American Government. Winter session: federal government; spring session, state and municipal government. Professor BEARD and Mr. MACMAHON. 6 points.
M., W., and F. at 2.
Prescribed for *freshmen intending to transfer to the School of Journalism.*
Open to other students who have had History **A.**

PSYCHOLOGY. See **Philosophy and Psychology.**

RELIGION

1, 2 — Introduction to the Study of the Bible. The object of this course is to give a comprehensive survey of the Bible, Old Testament and New, in the light of modern scholarship. Chaplain KNOX. 4 points.
Th. and Th. at 11.
Open to all students.
3 — Some Fundamentals of Religion. Dr. ADAM. 2 points.
Th., 2–4.
Open to all excepting freshmen.
4 — The Life and Times of Paul. Mr. TYSON. 2 points.
Th., 2–4.
Open to all excepting freshmen.

ROMANCE LANGUAGES AND LITERATURES

French

Under the new requirements in Modern Languages (see p. 59) no French courses are now prescribed and none can therefore automatically excuse the student from the regular departmental test. Students will, however, find no difficulty in selecting courses that will enable them to satisfy this test.

1, 2 (old number **A1–A2**) **— Elementary Course.** Professor ———— and Dr. ALEXANDER. 6 points.
Section I, M., W., and F. at 9; Section II, Tu., Th., and S. at 10.

1a, 2a (old number **1, 2**) **— Reading, Composition, Syntax.** Professor ————, Dr. ALEXANDER, and Mr. ————. 6 points.
Sections I and II, M., W., and F. at 11, Section III, at 2.
Prerequisite to Course **1a:** Course **1, 2,** or Elementary Entrance French.
Prerequisite to Course **2a:** Course **1a,** or Intermediate Entrance French.

3, 4 — General Introduction to the Study of French Literature. Reading, composition, and lectures. Professor ———— Dr. ALEXANDER and Mademoiselle DOBY. 6 points.

Section I (for students who passed the examination in Intermediate Entrance French and who intend to continue the subject), M., W., and F. at 10; Section II, M., W. and F. at 10; Section III, Tu., Th., and S. at 10.

Prerequisite: Course **1a, 2a** or its equivalent.

5, 6 — History of French Literature in the Seventeenth Century.[1] Professor LOISEAUX. 6 points.

M., W., and F. at 11.

Prerequisite: grade C in Course **3, 4.**

7, 8 — Modern French Writers.[1] Practical course. Mademoiselle DOBY. 6 points.

M., W., and F. at 1.

Prerequisite: Course **3, 4,** or the equivalent of Course **2,** with special training in the practical use of the language.

9, 10 — Advanced French Composition. Mr. ————. 4 points.

Tu. and Th. at 11.

Prerequisite: Course **2.**

17, 18 — History of the French Drama.[1] Professor LOISEAUX. 6 points.

M., W., and F. at 2.

Prerequisite: Course **5, 6.**

19, 20 — History of French Civilization.[1] Lectures, discussions and reports. Professor LOISEAUX. 4 points.

Tu. and Th. at 3.

Prerequisite: Course **5, 6.**

Courses in French literature of the Sixteenth, Seventeenth, Eighteenth and Nineteenth Centuries, given at Columbia University, are open, with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages and Literatures.

Italian

1, 2 — General Introduction to the Italian Language and Literature. Grammar and easy Italian texts. Professor LIVINGSTON. 6 points.

M., W., and F. at 1.

This course may not be taken at the same time with Spanish **1, 2.**

3, 4 — Dante's Inferno, Petrarch's Canzoniere, Carducci. Composition. Professor LIVINGSTON. 6 points.

M., W., and F. at 2.

Prerequisite: Course **1, 2** or its equivalent.

An advanced course, given at Columbia University, is open, with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages and Literatures.

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[1] Conducted entirely in French.

Spanish

1, 2 — Elementary Course. Grammar, reading, composition. Mr. HAYDEN. 6 points.

M., W., and F. at 11.

This course may not be taken at the same time with Italian **1, 2.**

3, 4 — General Introduction to Spanish Literature. Grammar, reading, composition. Mr. IMBERT. 6 points.

M., W., and F. at 10.

Prerequisite: Course **1, 2.**

Advanced courses, given at Columbia University, are open with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages and Literatures.

Romance Philology

A course, Introduction to Romance Philology (Phonology, winter session; Morphology, spring session) is open under the same conditions to properly qualified seniors.

SEMITIC LANGUAGES

Course **101–102,** Elementary Course in Biblical Hebrew, Dr. HITTI, is open with the consent of the Department of Semitic Languages and the Committee on Instruction to specially qualified juniors and seniors.

SOCIOLOGY. See **Economics and Social Science**

SPANISH. See **Romance Languages and Literature**

ZOÖLOGY

1–2 — General Biology and General Zoölogy. Elementary course. Professor CRAMPTON, Dr. DEDERER, Dr. GREGORY, Mrs. LOWTHER, Miss HENRY and Miss WARE. 2 lectures and 4 hours of laboratory work. 8 points.

Tu. and Th. at 1. Laboratory work, Tu. and Th., 2–4, or W. and F., 1–4.

Laboratory fee, $5.00.

Open to sophomores, juniors, and seniors.

This course is especially designed for students of physiology, geology, and medicine, as well as for those who intend to pursue zoölogy and botany.

3 — Histology. Dr. DEDERER and Mrs. LOWTHER. 1 lecture and 2 hours of laboratory work. 2 points.

W. at 9; laboratory work, W., 10–12 preferably.

Laboratory fee, $2.50, unless taken with Course **1.**

Prerequisite or parallel: Course **1.** Recommended as a parallel to Course **1.**

4 — Embryology. Professor CRAMPTON and Mrs. LOWTHER. 1 lecture and 2 hours of laboratory work. 2 points.

W. at 9; laboratory work, W., 10–12 preferably.

Laboratory fee, $2.50, unless taken with Course **2** or Course **102.**

Prerequisite or parallel: Course **1–2.** Recommended as a parallel to Course **2.**

[**5 — General Principles of Biology.** A general discussion of the fundamental facts of variation, inheritance, evolution, geographical distribution, animal coloration, and related topics. Professor CRAMPTON. 2 points.

Prerequisite: Course **1–2.**

This course supplements the general discussion given in Courses **1–2** and **101, 102,** and gives opportunity for a more critical and extended treatment of general principles.

Not given in 1916–17.]

[**6 — Experimental Biology.** An introduction to the experimental study of growth, reaction to stimuli, development, inheritance, and related topics. Professor CRAMPTON. 2 points.

Prerequisite: Course **1–2.**

This course gives opportunity to undergraduates to become familiar with some of the methods and results of experimental research, and forms a desirable preparation for graduate work in experimental subjects.

Not given in 1916–17.]

7–8 — Biology and Vital Relations of the Human Organism. General anatomy and physiology of the human type in comparison with other organisms; the biological basis of individual hygiene; human genetics; social relations of human beings in the light of biology. Professor CRAMPTON and Dr. GREGORY. 4 points; or 2 points, if taken parallel with or subsequent to Course **1–2.**

W. and F. at 2.

Open to students of all classes.

This course does not count as fulfilling the prescribed requirement in science for the A.B. or B.S. degree.

53, 54 — Practical Zoölogy and Embryology. Dr. DEDERER. 4 hours of conference and laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, $5.00.

Prerequisite: Course **1–2.**

This course is designed for students of zoölogy desiring practice in the preparation and mounting of zoölogical, histological, and embryological materials for microscopic examination.

101, 102 — General Zoölogy. Advanced course. Professor CRAMPTON, Dr. DEDERER, Dr. GREGORY and Miss WARE. 3 lectures and 6 hours of laboratory work. 12 points.

M., W., and F., 9–12.

Laboratory fee, $5.00.

Prerequisite: Courses **1–2,** and **4.**

This course is designed for students intending to enter medicine, also for students of zoölogy and botany as graduate subjects.

151–152 — General Physiology. General principles of animal physiology. Dr. GREGORY. 2 lectures and 4 hours of demonstration and laboratory work. 8 points.

Tu. and Th., 9–12.

Laboratory fee, $5.00.

Open to juniors and seniors.

Prerequisite: Course **1–2** or its equivalent and elementary physics and chemistry.

This course is designed for students of zoölogy, botany, and psychology, as well as for students intending to study medicine.

Hours	MONDAY	TUESDAY	WEDNESDAY
A.M.			
9	Botany 51–52 †Education A (III) English B7, B8 French 1, 2 (I) German 1–2 (I) German 5, 6 (I) History 3–4 Latin 11, 12 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I) Philosophy A3, A4 (IV) Philosophy 61–62 Zoölogy 101, 102	Chemistry 41–42 Economics A1–A2 (II) English A1–A2 (I) English B9, B10 Geology 1, 2 German 1–2 (III) German 3a, 4a (I) German 25, 26 History A1–A2 (I, II) Latin A1, A2 (IV, V, VI) Mathematics A1, A2 (VII) Philosophy 79–80 Zoölogy 151–152	*Architecture 35, 36 Botany 51–52 †Education A (III) English B7, B8 French 1, 2 (I) German 1–2 (I) German 5, 6 (I) History 3–4 Latin 11, 12 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I) Philosophy A3, A4 (IV) Philosophy 61–62 Zoölogy 3, 4 Zoölogy 101, 102
10	*Architecture 23, 24 Economics A1–A2(I) Economics 11–12 *Economics 105 †Education A (II, IV) English A1–A2 (V) English B3, B4 (I) English 25, 26 English 31, 32 French 3, 4 (I, II) German 1–2 (II) German 3, 4 (I) German 7, 8 Greek 3 Greek 5, 6 Mathematics A1, A2 (III, IV) Mathematics 33–34 *Music 3–4 Philosophy A1, A2 (II) Psychology 7–8 Spanish 3, 4 Zoölogy 101, 102	*Architecture 25, 26 *Architecture 93, 94 Botany 53–54 Chemistry 63, 64 Economics A1–A2 (III, IV) Economics 111, 112 †Education B (II) English A1–A2 (II) English B5, B6 (I) English B11, B12 English 1, 2 English 29–30 French 1, 2 (II) French 3, 4 (III) German 9, 10 German 39, 40 Greek 15, 16 History A1–A2 (III, IV) Mathematics A4 Philosophy A1, A2 (III) Physical Education B1, B2 (I) Zoölogy 151–152	Economics A1–A2 (I) Economics 11–12 †Education A (II, IV) English A1–A2 (V) English B3, B4 (I) English 25, 26 English 31, 32 French 3, 4, (I, II) German 1–2 (II) German 3, 4 (I) German 7, 8 Greek 3 Greek 5, 6 Mathematics A1, A2 (III, IV) Mathematics 33–34 *Music 3–4 Philosophy A1, A2 (II) Psychology 7–8 Spanish 3, 4 Zoölogy 101, 102
11	Chemistry 5–6 *Economics 105 English A1–A2 (VI) English B3, B4 (II) English 23, 24 English 27, 28 French 1a, 2a (I, II) French 5, 6 German 5, 6 (II) German 21, 22 Greek 11, 12 History 13, 14 Mathematics A1, A2 (V) Mathematics 21, 22 Mathematics 25–26 *Music 9–10 Philosophy A3, A4 (V) Physics 1–2 Psychology 9, 10 Spanish 1, 2 Zoölogy 101, 102	Botany 153, 156 Economics A1–A2 (V, VI) Economics 115, 116 English A1–A2 (III) English A5 (II) English 45–46 French 9, 10 German 3a, 4a (II) German 5, 6 (III) German 37, 38 Greek 9–10 History 73 *Music 1–2 Philosophy 66 Physical Education A1, A2 (II) Physical Education B1, B2 (II) Physics 11–12 Religion 1, 2 Zoölogy 151–152	*Architecture 33, 34 Chemistry 5–6 English A1–A2 (VI) English B3, B4 (II) English 23, 24 English 27, 28 French 1a, 2a (I, II) French 5, 6 German 5, 6 (II) German 21, 22 Greek 11, 12 History 13, 14 Mathematics A1, A2 (V) Mathematics 21, 22 Mathematics 25–26 *Music 9–10 Philosophy A3, A4 (V) Physics 1–2 Psychology 11, 12 Spanish 1, 2 Zoölogy 101, 102

Courses marked with an asterisk [*] are given at Columbia University

ATTENDANCE

THURSDAY	FRIDAY	SATURDAY
Chemistry 41–42 Economics A1–A2 (II) English A1–A2 (I) English B9, B10 Geology 1, 2 German 1–2 (III) German 3a, 4a (I) German 25, 26 History A1–A2 (I, II) Latin A1, A2 (IV, V, VI) Mathematics A1, A2 (VII) Philosophy 79–80 Zoölogy 151–152	Botany 51–52 †Education A (III) English B7, B8 French 1, 2 (I) German 1–2 (I) German 5, 6 (I) German 9, 10 History 3–4 Latin 11, 12 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I) Philosophy A3, A4 (IV) Philosophy 61–62 Zoölogy 101, 102	English A1–A2 (I) English B9, B10 German 1–2 (III) History A1–A2 (I, II) Latin A1, A2 (IV, V, VI) Mathematics A1, A2 (VII)
*Architecture 25, 26 *Architecture 41, 42 Botany 53–54 Chemistry 63, 64 Economics A1–A2 (III, IV) Economics 111, 112 †Education B (II) English A1–A2 (II) English B5, B6 (I) English B11, B12 English 1, 2 English 29–30 French 1, 2 (II) French 3, 4 (III) German 9, 10 German 39, 40 Greek 15, 16 History A1–A2 (III, IV) Mathematics A4 *Music 13–14 Philosophy A1, A2 (III) Physical Education B1, B2 (I) Zoölogy 151–152	*Architecture 23, 24 Economics 11–12 †Education A (II, IV) English A1–A2 (V) English B3, B4 (I) English 31, 32 French 3, 4 (I, II) German 1–2 (II) German 3, 4 (I) German 7, 8 Greek 3 Greek 5, 6 Mathematics A1, A2 (III, IV) Mathematics 33–34 Philosophy A1, A2 (II) Psychology 7–8 Spanish 3, 4 Zoölogy 101, 102	†Education B (II) English A1–A2 (II) English B5, B6 (I) French 1, 2 (II) French 3, 4 (III) Geology 23, 24 History A1–A2 (III, IV) Mathematics A4 Philosophy A1, A2 (III)
Botany 153, 156 Economics A1–A2 (V, VI) Economics 115, 116 English A1–A2 (III) English A5 (II) English 45–46 French 9, 10 German 3a, 4a (II) German 5, 6 (III) German 37, 38 History 73 *Music 1–2 *Music 13–14 Philosophy 66 Physical Education A1, A2 (II) Physical Education B1, B2 (II) Physics 11–12 Religion 1, 2 Zoölogy 151–152	Chemistry 5–6 English A1–A2 (VI) English B3, B4 (II) English 23, 24 French 1a, 2a (I, II) French 5, 6 German 5, 6 (II) German 21, 22 Greek 11, 12 Mathematics A1, A2 (V) Mathematics 21, 22 Mathematics 25–26 Philosophy A3, A4 (V) Physics 1–2 Psychology 11, 12 Spanish 1, 2 Zoölogy 101, 102	English A1–A2 (III, IV) English A5 (II, III) German 5, 6 (III)

those marked with a dagger [†] are given at Teachers College.

Hours	MONDAY	TUESDAY	WEDNESDAY
P.M.	Anthropology 1, 2 Chemistry 145–146 English B1, B2 English B5, B6 (II) English 7–8a (7a–8) French 7, 8 German 3, 4 (II)	*Architecture 21, 22 Astronomy 1, 2 Economics 118 English A4 (I) English 19 History 9, 10 History 11, 12	*Architecture 31, 32 Anthropology 1, 2 Chemistry 145–146 English B1, B2 English B5, B6 (II) English 7–8a (7a–8) French 7, 8 German 3, 4 (II)
1.10	German 11, 12 German 27, 28 Introductory Science 1–2 Italian 1, 2 Latin A1, A2 (I, II, III) Latin A3, A4 Mathematics 27–28 *Music 7, 8 Philosophy 21–22	Latin 17, 18 Physical Education A1 (I) (Lecture) Zoölogy 1–2	German 11, 12 German 27, 28 Introductory Science 1–2 Italian 1, 2 Latin A1, A2 (I, II, III) Latin A3, A4 Mathematics 27–28 *Music 7, 8 Philosophy 21–22
2.10	English A1–A2 (VII) English A4 (II) English A5 (I) English 35, 36 French 1a, 2a (III) French 17, 18 Greek 1–2 Greek 41, 42 History 19, 20 Italian 3, 4 Latin A6 Latin 31, 32 Mathematics A1, A2 (VI) Mathematics 23–24 Politics 1, 2	Classical Civilization 52 English A1–A2 (IV) English A5 (III) English 37, 38 History 15–16 History 121, 122 Latin 33 *Music 11, 12 Physical Education A1 (II) (Lecture) Physical Education D1, D2	English A1–A2 (VII) English A4 (II) English A5 (I) English 35, 36 French 1a, 2a (III) French 17, 18 Greek 1–2 Greek 41, 42 History 19, 20 Italian 3, 4 Latin A6 Latin 31, 32 Mathematics A1, A2 (VI) Mathematics 23–24 Politics 1, 2 Zoölogy 7–8
3.10	Economics A1–A2 (I–VI) †Education B (I) *History 156 Physical Education A1, A2 (I) Physical Education B1, B2 (III) (3.30)	French 19, 20 History 121, 122 Latin 41, 42 Physical Education A1, A2 (III)	†Education B (I) *History 156 Physical Education A1, A2 (I) Physical Education B1, B2 (III) (3.30)
4.10	†Education 281 †Mathematics 151, 152 (4–5.30) Physical Education A1, A2 (III) Physical Education B1, B2 (III)	*Fine Arts 101, 102	†Education 281 †Mathematics 151, 152 (4–5.30) Physical Education B1, B2 (III)

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

THURSDAY	FRIDAY	SATURDAY
*Architecture 21, 22 Astronomy 1, 2 Economics 118 English A4 (I) English 19 History 9, 10 History 11, 12 Latin 17, 18 Zoölogy 1–2	Anthropology 1, 2 Chemistry 63, 64 Chemistry 145–146 English B1, B2 English B5, B6 (II) English 7-8a (7a–8) French 7, 8 German 3, 4 (II) German 27, 28 Introductory Science 1–2 Italian 1, 2 Latin A1, A2 (I, II, III) Latin A3, A4 Mathematics 27–28 *Music 7, 8 Philosophy 21–22	
Classical Civilization 52 English A1–A2 (IV) English A4 (I) English A5 (III) English 37, 38 History 15–16 History 121, 122 Latin 33 *Music 11, 12 Religion 3, 4	Chemistry 41–42 English A1–A2 (VII) English A4 (II) English A5 (I) English 35, 36 French 1a, 2a (III) French 17, 18 Greek 1–2 Greek 41, 42 History 19, 20 Italian 3, 4 Latin A6 Latin 31, 32 Mathematics A1, A2 (VI) Mathematics 23–24 Politics 1, 2 Zoölogy 7–8	
French 19, 20 History 121, 122 Latin 41, 42 Physical Education A1, A2 (III) Religion 3, 4	†Education B (I) *History 156	
*Fine Arts 101, 102	†Education 283 †Education 284	

those marked with a dagger [†] are given at Teachers College.

ACADEMIC CALENDAR

1916–1917

1916

Sept. 11 — Monday, Last day for filing applications for entrance and deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of $5.

Sept. 18 — Monday, Entrance examinations and examinations for deficient students begin.

Sept. 20 — Wednesday, Registration (including the payment of fees) begins.

Sept. 26 — Tuesday, Registration ceases for students previously matriculated. The privilege of later application may be granted on payment of a fee of $5.

Sept. 27 — Wednesday, Winter Session, 28th year, begins.
Registration ceases for students matriculating for the first time. The privilege of later application may be granted on payment of a fee of $5.

Oct. 17 — Tuesday, Stated meeting of University Council.

Nov. 7 — Tuesday, Election Day, holiday.

Nov. 29 — Wednesday, Annual Thanksgiving Service in St. Paul's Chapel.

Nov. 30 — Thursday,
to
Dec. 2 — Saturday, inclusive, Thanksgiving holidays.

Dec. 10 — Sunday, Annual Commemoration Service in St. Paul's Chapel.

Dec. 19 — Tuesday, Stated meeting of University Council.

Dec. 20 — Wednesday,
to

1917

Jan. 2 — Tuesday, inclusive, Christmas holidays.

Jan. 11 — Thursday, Last day for filing applications for January entrance examinations. and for admission to advanced standing. The privilege of later application may be granted on payment of a fee of $5.

Jan. 18 — Thursday, January entrance examinations begin.

Jan. 24 — Wednesday, Mid-year examinations begin.

Feb. 5 — Monday, Registration (including the payment of fees) begins.

Feb. 6 — Tuesday, Winter Session ends.

Feb. 7 — Wednesday, Spring Session begins.
University service in St. Paul's Chapel.
Registration ceases for students entering the Spring Session. The privilege of later application may be granted on payment of a fee of $5.

Feb. 20 — Tuesday, Stated meeting of University Council.

Feb. 22 — Thursday, Washington's Birthday, holiday.

April 2 — Monday, Last day for filing applications for non-competitive scholarships.

April 5 — Thursday,
to
April 9 — Monday, inclusive, Easter holidays.

April 17 — Tuesday, Stated meeting of University Council.

May 21 — Monday, Final examinations begin.

May 30 — Wednesday, Memorial Day, holiday.

June 3 — Sunday, Baccalaureate service.

June 6 — Wednesday, Commencement Day.

June 13 — Wednesday, Spring Session ends.

June 18 — Monday, Examinations of the College Entrance Examination Board begin. The dates for filing applications are contained in a circular issued by the Board, 1134 Amsterdam Avenue, New York, N.Y.

July 9 — Monday, Eighteenth Summer Session of Columbia University begins.

Aug. 17 — Friday, Eighteenth Summer Session of Columbia University ends.

Sept. 10 — Monday, Last day for filing applications for entrance or deficiency examinations, and for advanced standing. The privilege of later application may be granted on payment of a fee of $5.

Sept. 17 — Monday, Entrance examinations and examinations for deficient students begin.

Sept. 19 — Wednesday, Registration (including the payment of fees) begins.

Sept. 25 — Tuesday, Registration ceases for students previously matriculated. The privilege of later application may be granted on payment of a fee of $5.

Sept. 26 — Wednesday, Winter Session, 29th year, begins.
Registration ceases for students matriculating for the first time. The privilege of later application may be granted on payment of a fee of $5.

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